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SEPTEMBER / OCTOBER 1994 ■ VOLUME 7 / NUMBER 5 ■ \$4.00

TRADITIONAL ROOFING

The Largest Buyer's Guide, p. 27

PLUS: Weathervanes & Finials, p. 11

Wall & Ceiling Decoration, p. 76

Specialty Glass & Glazing, p. 72

Turnings & Porch Parts, p. 17

Window Hardware, p. 67

Historic Windows, p. 51

Period Plumbing, p. 89

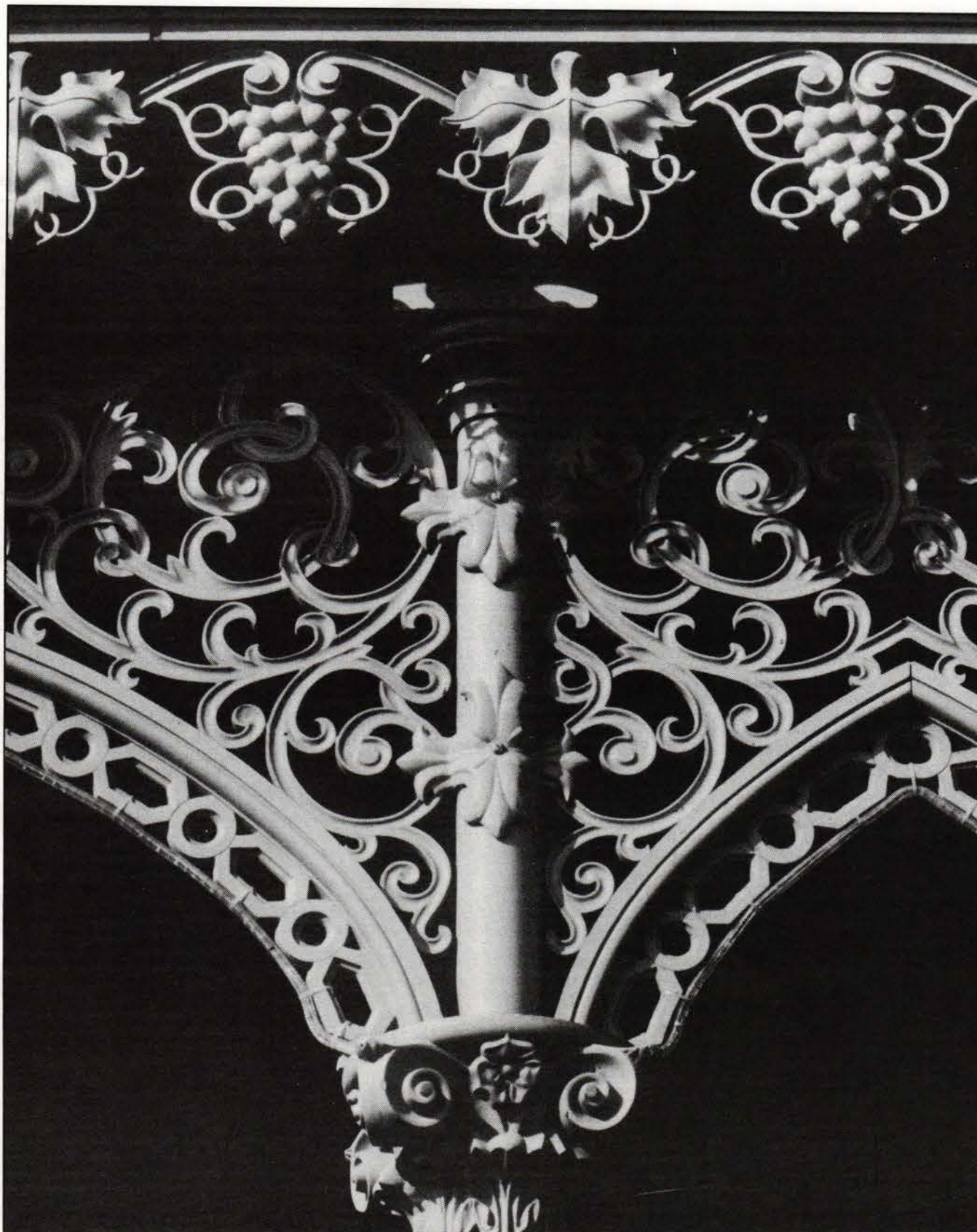
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CONTENTS

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• Companies noted with • have pre-filed their product literature in the 1994 TRADITIONAL BUILDING CATALOG for your convenience. Consult your office copy of the 1994 CATALOG for immediate access to this product data.

ON THE COVER: The Sealey Mansion, in Galveston, Texas, had its roof restored in 1984 with "Jimmy Durante" Ludowici Roof Tile (witness the "nose" on the tile). For more information on LUDOWICI ROOF TILE, see their entry on the Roofing SourceList on page 42 or Write in No. 276.

SPECIAL FEATURES:

Profile: Quinn Evans/Architects	6
Weathervanes & Finials	11
Turnings & Porch Parts	17
Traditional Roofing	27
The Wood Window	51
Wood Window Repair	52
Specifying Insulated Glass	54
Wall & Ceiling Decoration	76
Period Plumbing	89
Classifieds	96
Book Reviews	96
Product Literature	97
Fax Connection	98
Siegel's Scratchboard	99

Division 1 SERVICES



RELATED PRODUCT ADVERTISING

Building Conservation International	26
Institute for Classical Arch.	5
PRG, Inc.	8
Restoration 95	7
Yazoo Mills	8

Division 2 SITEWORK



RELATED PRODUCT ADVERTISING

• Barlow Tyrie	10
Brass Baron	10

City Visions/Heritage Garden Houses	9
Custom Structures, Inc.	9
• Goodwin International	9
• Hennessy House	9
Limestone Concepts	8
Murdock Fountains	8
Northroad and Company	9

Division 4 MASONRY



RELATED PRODUCT ADVERTISING

• Ahrens Chimney Technique	10
• Brickyard	10
Lyemance International	10
ProTech Systems	10

Division 5 METALS



SPECIAL REPORT WEATHERVANES & FINIALS

IN THE NEWS

Weathervanes & Finials SourceList	12
Weathervanes & Finials Portfolio	14

RELATED PRODUCT ADVERTISING

Adornments for Architecture	15
Architectural Iron Design, Inc.	11
• Arsko Mfg. Co.	16
Barker Metalcraft	16
Brumder Ornamental Iron	15
Denninger Products	16
Du Lac Co., J. A.	16
Florentine Craftsmen, Inc.	15
Johnson Atelier	15
Lake Shore Industries	16
• Lynch & Sons	15
• Monarch Radiator Covers	16
Ornamental Metal Institute of New York	13
Outward Signs	15
• Reggio Register Co.	16
Robbins Lighting, Inc.	16
Salt & Chestnut Weathervanes	16
Whitehall Products	11

Division 6 WOOD & PLASTICS



SPECIAL REPORT TURNINGS & PORCH PARTS

IN THE NEWS

Turnings & Porch Parts SourceList	18-20
Turnings & Porch Parts Portfolio	22-24

RELATED PRODUCT ADVERTISING

Abaroot Mfg. Co.	25
American Porch Brackets	16
Anthony Wood Products, Inc.	25
Architectural Products by Outwater	21
• Chadsworth, Inc.	19

Cinder Whit and Company	26
Classic Architectural Specialties	25
• Craftsman Lumber	16
• Cross Industries	25
• Cumberland Woodcraft	19
Dawley Woodworking	26
Fagan Designs	19
Gingerbread Man	25
Hartmann-Sanders Co.	17
Henderson, Black & Green	21
Josef's Art Wood Turning	26
Kestrel Manufacturing	16
Mad River Woodworks	16
Mansion Industries, Inc.	26
Mohamad Woodturning Corp.	23
Morgan Stairways	26
New England Woodturners	26
Newmeyer Lumber Company	26
North Fields Restorations	21
Pagliacco Turning & Milling	23
Redman Woodturnings	23
• Schwerd Manufacturing	19
Sheppard Woodworks	26
Somerset Door & Column Co.	25
• Style-Mark	17
• Turncraft	26
Vintage Woodworks	25
• Vixen Hill Shutters	50
Wood Factory	26
Wood-O-Rama	87
• Worthington Group	23

Division 7 ROOFING



SPECIAL REPORT TRADITIONAL ROOFING

IN THE NEWS

Traditional Roofing Index	30-38
Traditional Roofing SourceList	38-42
Traditional Roofing Portfolio	44-50

RELATED PRODUCT ADVERTISING

Armor Plus International Co.	35
Berridge Manufacturing Company	45
C&H Roofing	29
Cedar Shake & Shingle Bureau	39
Celadon Ceramic Slate	37
CertainTeed Corp.	39
• Chicago Metallic Corp.	33
Commercial Gutter Systems	47
Conklin Metal Industries	43
Cor-A-Vent	37
Ditmars Roofing	39
Durable Slate Company	47
Eiger Building Products	35
Empire Scroll Finishing	45
Evergreen Slate Company	47
Follansbee-Terne Div.	33
Gladding McBean	45
Greenstone Slate	35
Heather and Little	39
Hilltop Slate Company	47
• Historical Arts & Casting	2, 31
L.J. Fastener	39
Liberty Cedar	31
Ludowici Roof Tile, Inc.	43
Midget Louver Co.	39
Midland Engineering Co.	41
Monier Roof Tile	31
Mullane Snow Guards	35
NIKO Contracting	41, 43
New England Slate Co.	45
New Foundland Slate Co.	41
• Newport Fastener	37
• Nixalite	43
Northern Roof Tile Sales	41
Patina Finishes & Copper Coatings	35
Preservation Products	47
Renaissance Roofing	37
Richmond Precast Concrete Products	47
Robinson Iron	45
Rogers & Smith Roofing	37
Shamokin Trail Shingle Co.	45
Sky Lodge Farm	33
• Slate International	43
Snow Management Systems	41
Stewart Iron Works	45
Superior Shakes of Texas	47
• Supradur Manufacturing Corp.	35
Sur-Fin Chemicals	31
Tile Roofs, Inc.	41
TileSearch	33
Trademan's Choice	31
Triple S Chemicals	33
Tropic Top	47
Tuck, Travis	16
• Vande Hey-Raleigh Mfg.	31
Vermont Structural Slate	39
• Vulcan Supply	37, 43
• W.F. Norman Sheet Metal Ornament	33
Yost Mfg. & Supply	35

CONTENTS

Division 8 DOORS & WINDOWS



SPECIAL REPORTS HISTORIC WINDOWS WINDOW HARDWARE SPECIALTY GLAZING

IN THE NEWS

The Wood Window	51
Wood Window Repair	52
Specifying Insulated Glass	54
Historic Windows <i>SourceList</i>	58-62
Historic Windows Portfolio	56, 64, 66
Window Hardware <i>SourceList</i>	68
Window Hardware Portfolio	70
Specialty Glazing <i>SourceList</i>	74
Specialty Glazing Portfolio	72, 73

RELATED PRODUCT ADVERTISING

A&S Window Associates Inc.	65
• Abatron	59
Accurate Metal Weatherstrip Co.	71
Acorn Forged Iron	71
Advantage Window Systems	57
Air-Flo Window Contracting Corp.	65
Air-Master	63
• Allied Windows	59
• American Custom Millwork	57
• Architectural Components	63
Art & Architectural Glass	75
• Ball & Ball Hardware	71, 100
Barry Supply Co.	69
Beech River Mill Co.	69
Bendheim Glass	75
Beveled Glass Works	61
Blaine Window Hardware	69
Blenko Glass	75
Brandt, Sylvan	57
Bronze Craft Corporation	69
CAFF Company	63
California Glass Bending	75
• Center Lumber Co.	59
Chautauqua Doors	50
Chemcrest Corp. Ltd.	67
Cityproof Corporation	55
Classic Doors and Mantels	53
Creative Openings	55
Dorbin Metal Strip Mfg. Co.	69
Drums Sash & Door	67
Epoxy Technology	57
Eugenia's Place	69
• Executive Woodsmiths, Inc.	53
• Gaytee Stained Glass, Inc.	67
Graham Architectural Products Corp.	61
Great Panes Glassworks	75
• Hahn's Woodworking, Inc.	63
Hardware Plus	71
Johnson Millwork, Inc.	65
Kayne & Son	69
Keep in Touch	61
Lehmann Studios	73
Lighting by Hammerworks	69
Lovington Historic Window	61
Maguire Iron	67
Maurer & Shepherd, Joyners	57
• Midwest Architectural Wood Products	59
Millwork Specialties	65
New Found Woodworks	61
Oslo-America, Inc.	57
Oxford Chime Works	67
Patmore Millwork Company	55
Peters & Son, Inc.	69
Phelps Co. Architectural Specialties	71
Phelps Co. Woodworking	65
Reflection Studios	73
Replacement Systems International	61
Rigby Company	71
Rohlf's Stained Glass Studio	75
Ruffin and Payne, Inc.	63
Seaquay Architectural Millwork Corp.	59
• Seekircher Steel Window Repair	63
Steptoe & Wife	85
Tenebruso Cabinetmakers	65
Torrance Steel Window Company	65
Tremont Nail Company	71
Whitco	69
Window Saver Company	63
Wood Window Workshop	53
• Woodstone Company	55
Zeluck Doors and Windows	53

Division 9 FINISHES



SPECIAL REPORT WALL & CEILING DECORATION

IN THE NEWS

Wall Decoration <i>SourceList</i>	78-82
Wall Decoration Portfolio	84-86

RELATED PRODUCT ADVERTISING

• A.A. Abbingdon Affiliates	79
Albert Michaels Conservation, Inc.	77
American Academy of Decorative Finishes	81
Ball Consulting	87
Bassett & Vollum Wallpapers	76
Bouman, Douglas & Associates	83
• Bradbury & Bradbury	77
Burrows & Co.	81
Canning, John & Co.	81
• Chelsea Decorative Metal Co.	76
Classic Ceilings	83
Conrad Schmitt Studios	79
• Crown Corporation	76
Decorator's Supply	85
DMS Studios	88
EverGreene Painting Studios	77
Faux Effects	83
Fe Fi Faux	81
Felber Ornamental Plastering Corp.	87
Fine Paints of Europe	79
• Fischer & Jirouch Co.	87
Fulper Tile	85
Gold Leaf Studios	83
Historic Floors of Oshkosh	85
Historic Paints, Ltd.	83
Master of Plaster	81
Mead Wallcoverings	83
Montgomery, Paul & Associates	83
Mount Diablo Handprints, Inc.	77
Old Fashioned Milk Paint Company	76
Optic Nerve Art Corp.	81
Red Baron's	85
Sepp Leaf Products, Inc.	77
Sheoga Hardwood Flooring & Paneling	85
• Smooth-On	85
• Specification Chemicals	81
Steptoe and Wife/Crown	83
Stulb Paints	81
Superior Architectural Cornices	88
Synair Corporation	88
Tuff-Kote Co.	83
Vander Heyden Woodworking, Inc.	85
Victorian Collectibles, Ltd.	76
Wells Painting Studios	79
Zaffle Fine Decorative Painting	85

Division 10 SPECIALTIES



RELATED PRODUCT ADVERTISING

Thermo-Rite Manufacturing	88
---------------------------------	----

Division 14 CONVEYING SYSTEMS



RELATED PRODUCT ADVERTISING

Cemco Lift, Inc.	88
Inclinor Co. of America	88

Division 15 PLUMBING

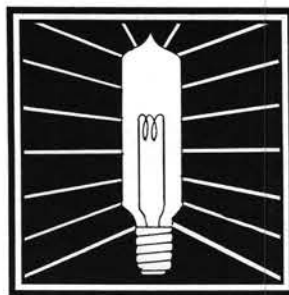


SPECIAL REPORT PERIOD PLUMBING

RELATED PRODUCT ADVERTISING

• A-Ball Plumbing Supply	91
Bathroom Machineries	91
Decorum, Inc.	91
J.T. International	91
Sink Factory	91
• Strom Plumbing by Sign of the Crab	91
Sunflower Shower Co.	91
Watercolors, Inc.	91

Division 16 ELECTRICAL



RELATED PRODUCT ADVERTISING

• Ball & Ball Lighting	100
Lampshades of Antique	93
Liberty Brass Turning Co.	93
• Roy Electric Co.	93
• Trimble House	93
• Victorian Lighting Works	93

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- ☐ Proportion: The Philosophical Aspects (Steve Bass)
- ☐ Classical Ornament (Stephen Falatko)
- ☐ India Ink Wash Rendering: The Old-Fashioned Methods* (Richard Cameron)
- ☐ Traditional Building Technology: The Cornice (Peter Talty)

Demonstration

- ☐ Scagliola, Fresco, Stucco Lustro, Sgraffito (Jeffrey Greene)

DAY 2 AFTERNOON SESSION

Workshops

- ☐ Moldings: Design & Meaning (Donald Rattner)
- ☐ Designing Trim Elements For The Classical Interior (Steve Semes)
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- ☐ India Ink Wash Rendering: The New-Fashioned Methods* (David Genter)
- ☐ Traditional Building Craft: Millwork & Joinery (Lawrence Dumoff)

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- ☐ Masterpieces of Architectural Sculpture in Lower Manhattan (Donald Martin Reynolds)
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- ☐ Great Interiors of New York (Ralph Lewis)

WRITE IN NO. 715

profile

The Patient Architects

Preservation architects Michael Quinn and David Evans have restored buildings humble and monumental around the country for twenty years, and their work and their firm have aged well. Their secret is patience — with materials decisions, with nervous clients, with the firm's own rate of growth.

BY EVE M. KAHN

Quinn and Evans are both so unflappable and determined that when a board-mounted master plan falls from the conference room wall onto Quinn's head during our interview, it does not derail his train of thought. And Evans recalls that he once splashed water across his notes on a podium during a lecture and still kept talking smoothly. With that kind of sang-froid, their 10-year-old firm, based in Washington (Quinn) and Ann Arbor (Evans), has expanded from 2 to 36 people and stuck by clients — fast-tracking and raising funds to solicit bids for just one phase at a time. "Incremental change is easier to manage, to learn from and then apply those lessons," says Evans. "Too much change, too quickly, causes mistakes to be made and then repeated."

Quinn works out of a former clothing factory, Evans out of a former bakery; faxes and frequent-flyer miles tie the offices together. Friends since undergraduate years at the University of Michigan in the '60's, they both approach the field with missionary enthusiasm: Evans is a Methodist minister's son and started his career in nonprofit design for impoverished Detroit neighborhoods; Quinn spent his first three post-graduation years in the Peace Corps saving 18th-century architecture in Barbados. Few other preservation firms can rival their range of specialties: Restoring complicated roof forms, adding disabled access routes to theaters, developing museum master plans, and helping downtowns stay economically viable. And few preservation firms have handled so much architectural pomp — Washington's Old Executive Office Building, Michigan's Wayne County Courthouse, Boston's Christian Science mother church, Nashville's Parthenon replica — along with so much low-profile background architecture that gives the pomp its impact (simple military housing, new infill between the most vernacular of factory buildings).

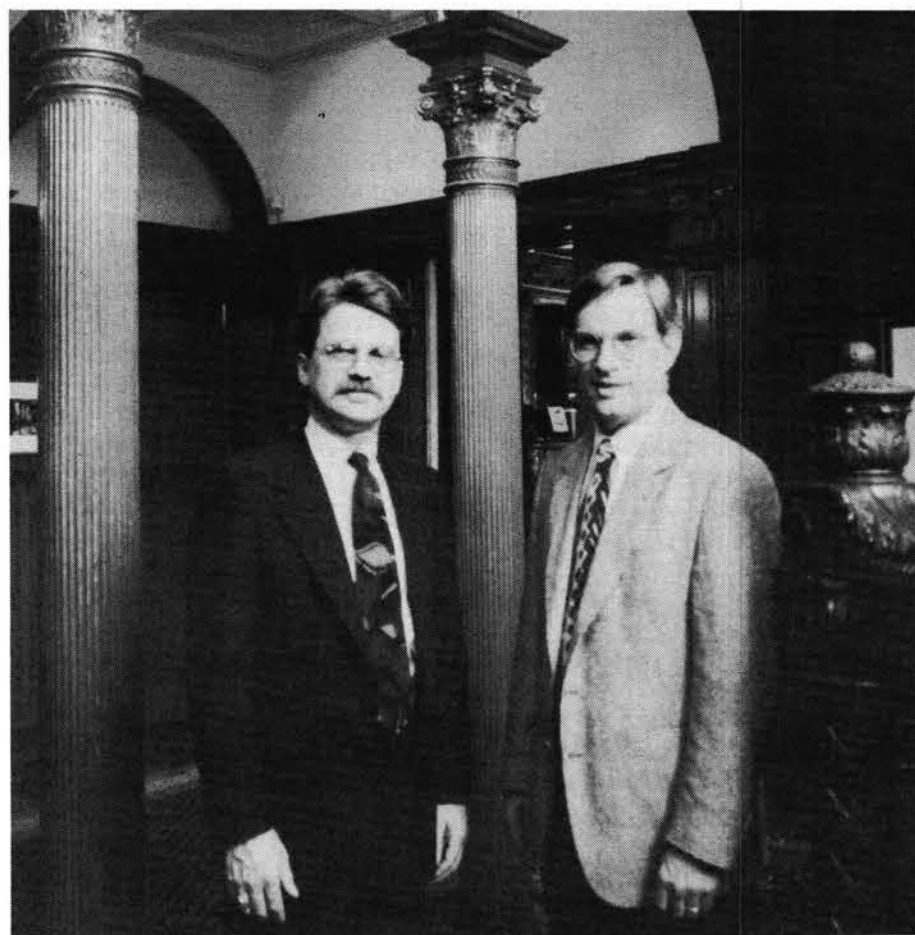
The firm's goals, says Quinn, are to discover and perfect restoration technologies that last, to add politely to existing buildings, and to help clients comprehend and contribute to streetscapes. "I'm never a stranger when I go to a new place. I can look around and determine the influences, the economic history of the place, read the community through its physical fabric. Then I can open the eyes of the people living there," Evans says. "That's where the passion is. That's what got me interested in this field, and that's what keeps me pumped up about it."

Moving Millstones

Quinn and Evans first teamed up professionally in 1976 at Preservation/Urban Design in Ann Arbor, run by the renowned Richard Frank and, at a height of 28 employees, once the nation's largest restoration firm. Evans recalls feeling



Built in Boston in 1894 and expanded in 1904 and 1975, the First Church of Christ, Scientist has so far acquired a new layer of lead-coated copper roofing and masonry repairs on the north wing. Future phases will repair masonry and terra cotta on the central dome and cupola. (Photo: Bob Eovaldi)



Michael Quinn (right) and David Evans in the stair hall of the Hecker-Smiley Mansion in Detroit, which the firm recently restored and adapted as law offices and which won a 1994 award for historic preservation from the American Bar Association Journal. (Photo: Fred Golden)

"like I was stepping out of the mainstream by taking the job, getting involved in a kind of fringe" and remembers an older architect warning him then, "Be careful what you get good at, because you'll be doing it for the rest of your life." So much Mies and so little preservation was mentioned in schools at the time, Evans adds, that "there was a whole group of us in our '20's at P/UD, learning everything through direct experience." The county gave Quinn and Evans their first major P/UD assignment, heavily underwritten by the Mott Foundation, and intended to rival Ford's Greenfield Village: 27 vintage buildings to be arranged in a replica of a 19th-century small town, open in time for the Bicentennial, and known as Crossroads Village.

Basing lawn and street proportions on 19th-century small-town maps, Quinn and Evans installed the requisite church, ice house, opera house, and school. They even brought in a grist mill, studied old milling literature, and ordered enough turbines, line shafts, and pulleys to re-equip the mill for grinding. Evans: "I was losing sleep wondering, 'Will I really have enough head of water to drive this line shaft?' It really felt good when we turned it on and it really could grind grain again."

By 1978, P/UD had opened a Washington office, which quickly won three ground-breaking government commissions: The Library of Congress (lavish interiors requiring \$3 million in gold leaf alone, restored with Arthur Cotton Moore), the Old Post Office (for which the General Services Administration commissioned its first Historic Structures Report, and Quinn and Evans developed an HSR methodology they still follow), and the Smithsonian Institution's Arts and Industries Museum with its 500 decrepit windows. All three amounted to what Quinn calls "the ultimate materials conservation laboratory," for pioneering the likes of polychrome paint restoration, saving of original window glass, and masonry repointing.

Meanwhile, the Ann Arbor office helped a grassroots group save Detroit's Orchestra Hall from demolition to make way for a Gino's. (When one says something flattering about how no other firm was involved in that scale and caliber of work at the time, Evans deflects the compliment with "Let's just say we were doing things for which there was very little literature, very little precedent.") Quinn and Evans split off from Frank in 1984, as Frank was attempting (unsuccessfully) to merge with a large architecture/engineering firm.

continued on page 94

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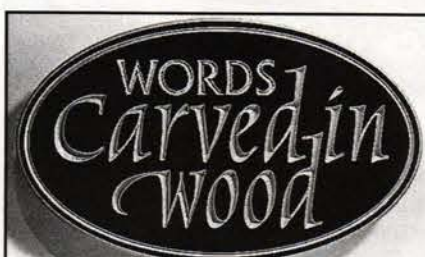


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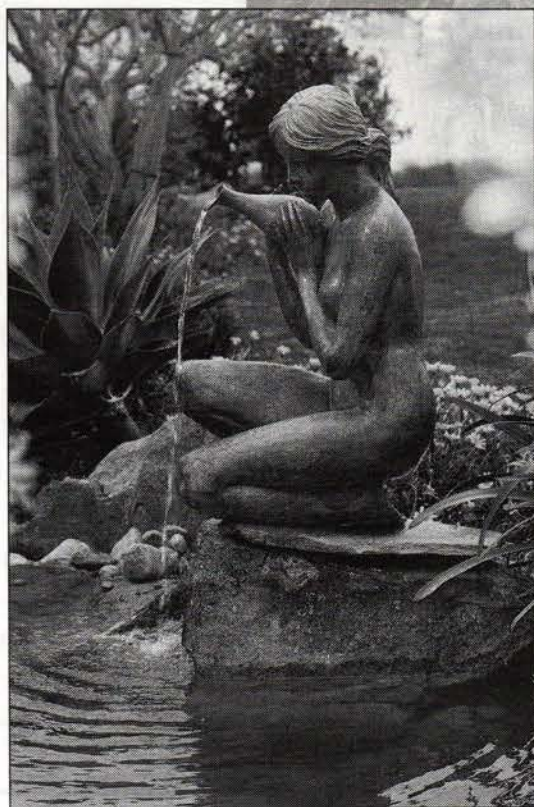
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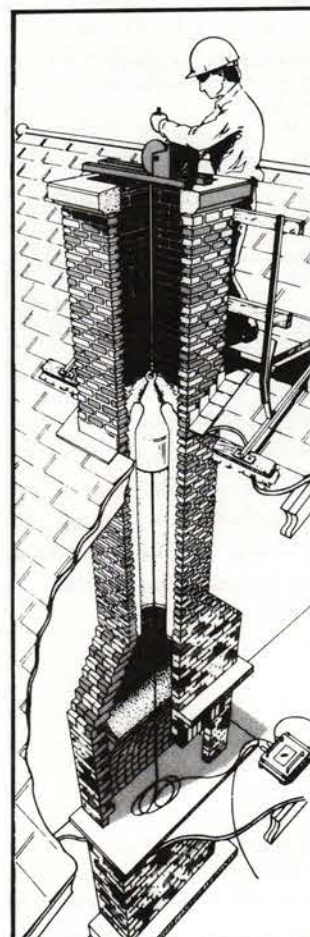
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WRITE IN NO. 244

WEATHERVANES
& FINIALS

special
report

Beyond the Swell Body

There's more to specifying a weathervane than knowing whether you want a silhouette, full-, or swell-bodied piece. Proportion, support, and technique are essential data — especially at the planning stage.

When Al and Beth Denninger launched Denninger Cupolas and Weather Vanes, in April of 1988, they proportioned their rooftop decorations according to the old-fashioned rule-of-thumb: 1 in. to 1 ft. They began crafting cupolas, finials, and weathervanes, building a client base of architects, builders, and homeowners. In the autumn of that year, a very assertive client in Upper Saddle River, N.J., insisted his cupola be larger than the 1 in. to 1 ft. scale, so that it would look "anchored." Defying the Denningers' judgement that the cupola would be too big for the house, the client held his ground, and the cupola was fabricated to his specifications — and installed. As the Denningers stood back to survey their efforts, they had an epiphany: The "oversized" scale was perfect!

This experience precipitated an intensive period of reevaluation. The Denningers reviewed recent projects and determined that they had been misled by the common standard of proportion and scale. They designed a new proportion chart to achieve the best relationship of site and product with attention to keeping costs down, efficient production, and ease of installation.

What follows are critical points the Denningers assert must be considered — before specifying weathervanes and finials. (Note that except for the hardware that allows a weathervane to turn, the same issues apply to finials as to weathervanes; therefore, for the sake of simplicity, we will speak only in terms of weathervanes.)

SIZE/PROPORTION: Determine a good proportion between the weathervane and the structure on which it's going to be installed. An eight-ft. hippo may be an imaginative way to advertise a zoo, but if it's going to sit atop a 12-ft.-dia. kiosk, it'll be a visual — and perhaps structural — disaster. Stock products and components are widely available; high-end and specialty weathervanes tend to be complete custom jobs. Most of all, careful measuring and assessment of the site should be communicated to the fabricator. The

Denningers recommend at least 1-1/4 inches to one foot as a minimum (e.g., a 30 in. weathervane on a 20 ft. garage or gazebo).

PREPARATION: According to Denninger, 75% of the jobs that come in are inadequately detailed. Weathervanes must be supported by a framework: A headblock with a hole in it, a brace below, and a plumb installation, for proper and smooth operation. Late planning will ensure the expenditure of *more* money and *more* time. Proper forethought is not only the most efficient way to fly but will also make the installation much stronger. (Included in the Denningers' official literature are diagrams of several mounting techniques.) Mounting detail, pitch of roof, and roofing materials are all part of the data that must be figured into preparation.

MATERIALS: Over the past centuries, the relationship of cost of labor and materials has reversed itself. When labor was cheap, a lot of hand manipulation went into crafting weathervanes to circumvent the use of costly materials. Today's craftspeople can choose from a wide range of materials that are stronger, thicker, heavier, and, with the use of different alloys, more durable. Old weathervanes that need to be replaced can be replicated today using exactly the old materials and techniques, or improved materials and less hand manipulation can result in a longer lasting and possibly less expensive translation.

TECHNOLOGY: With the advancements in high-tech welding practices, weathervanes are more durable and a better investment today than they were in previous centuries. Weathervanes fabricated with modern technologies — and with materials like stainless steel and heavier coppers and brasses — can be expected to last for generations. — JSL

To contact Denninger Cupolas and Weather Vanes, call or write: RD 1, Box 446, Dept. TB, Middletown, NY 10940 Phone & Fax (914) 343-2229.

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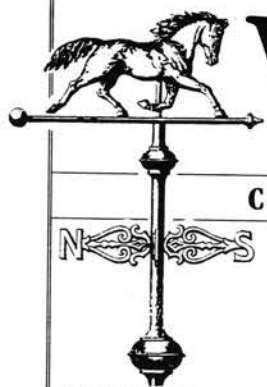


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C&H Roofing P.O. Box 2105, Dept. TB Lake City, FL 32056 800-327-8115	Custom sheet-metal stampings; ornamental architectural sheet-metal work. Design, fabrication, installation; international projects.	Free Write in No. 724	✓	✓	✓	✓		Cupolas	Copper	100%
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Crosswinds Gallery 980 E. Main St., Dept. TB Portsmouth, RI 02871 401-683-7974	3,000 stock weathervane designs; custom work. All types, sizes, and finishes, including gilding. Also carries parts, antiques, and has large selection of stock and custom cupolas and finials.	Free	✓	✓	✓	✓			Copper, aluminum, carved wood	50%
Denninger Cupolas & Weather Vanes RD 1, Box 447, Dept. TB Middletown, NY 10940 914-343-2229	Weathervanes in all designs: Full and swell bodied, silhouettes, Victorian banners. Handmade finials, caps, and fancy garniture. Specialties: Historical replication, church scroll, and gold-leaf ornamentation.	Free Write in No. 730	✓	✓	✓	✓		Caps; spun, turned and forged garniture	Sheet copper, brass, stainless steel, aluminum, gold leaf	70%
The J.A. Du Lac Co. 3462 South Channel Dr., Dept. TB Harsens Island, MI 48028 810-748-9606	Custom-built, historically inspired cupolas and full-bodied copper weathervanes. Traditional designs available in classic American country, Colonial, and Victorian stylings.	Free Write in No. 61	✓					Cupolas	Copper	100%
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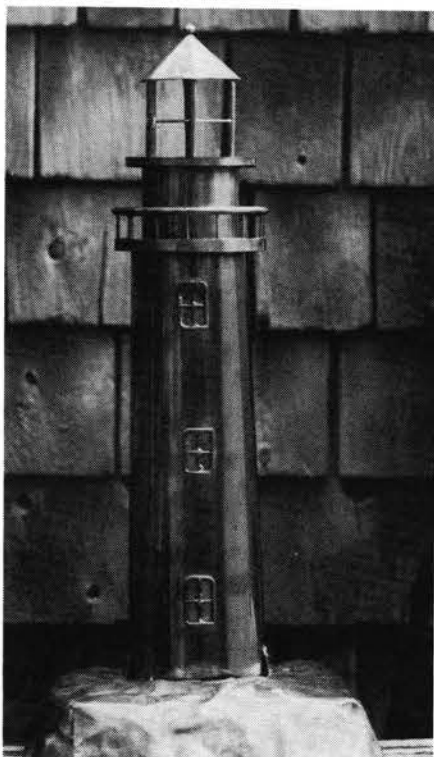
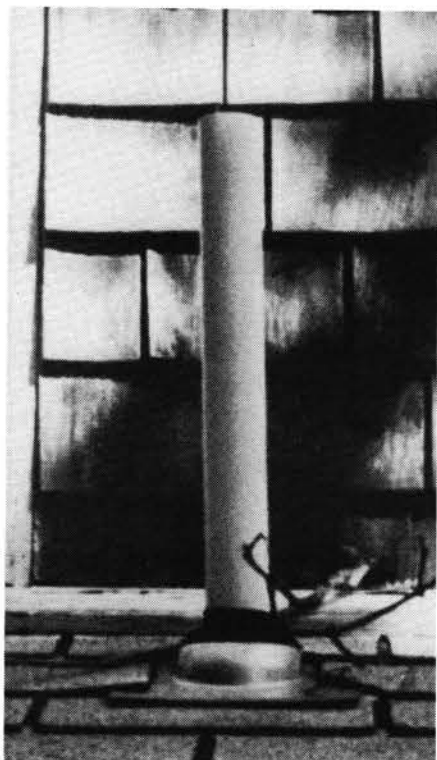


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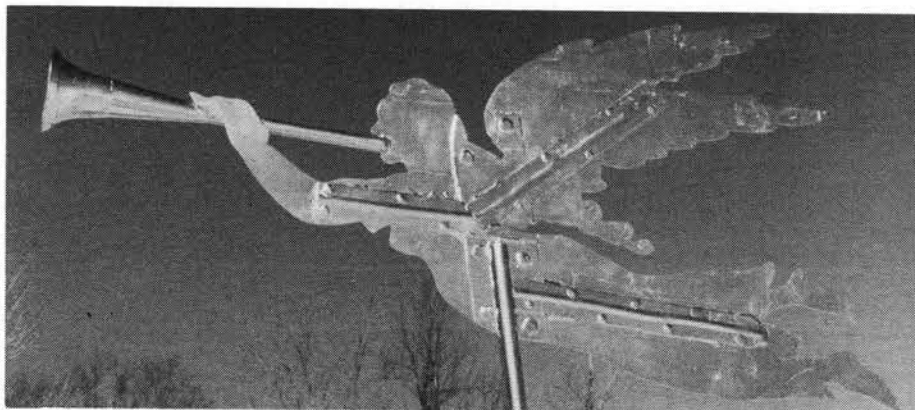
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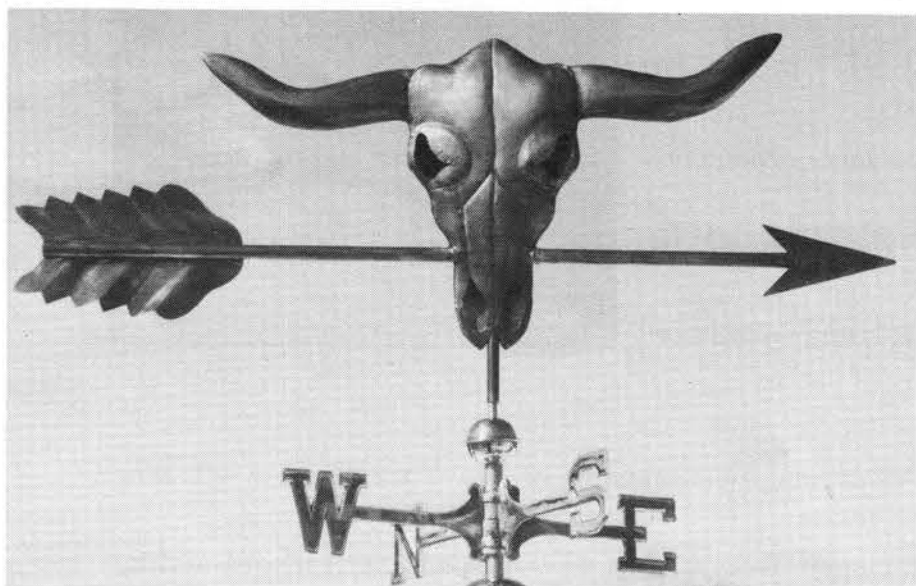
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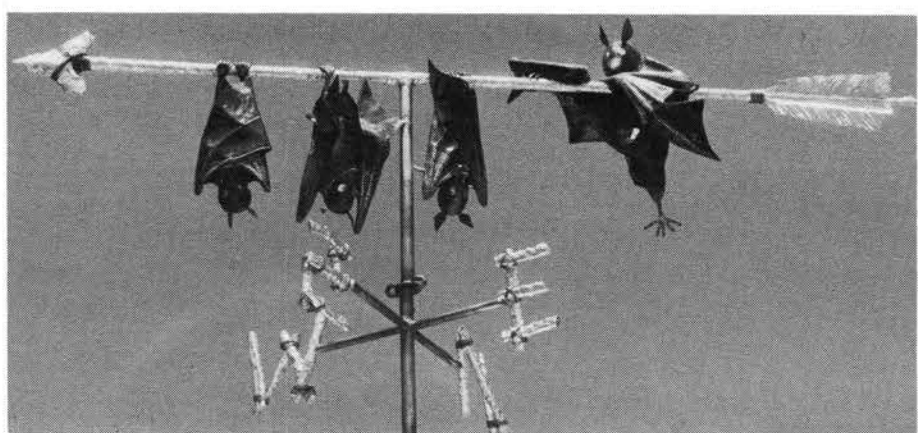
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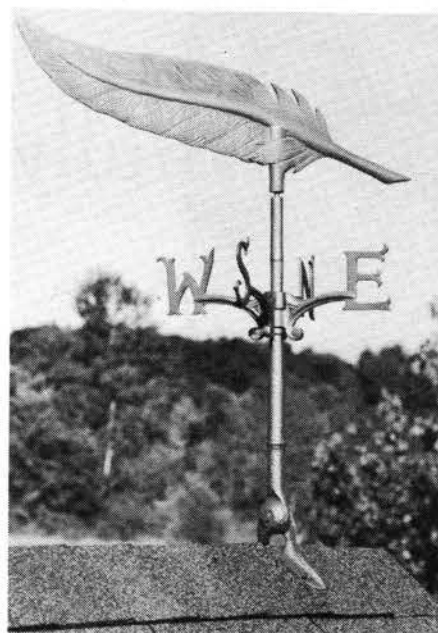
A silhouette weathervane, "Gabriel" is a brass reproduction with gold leaf; trumpet to toe, it is 42 in. long. IVES WEATHERVANES



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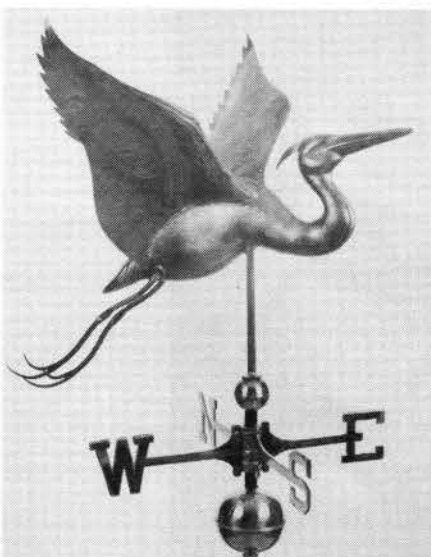
"Four Bats On An Arrow" was custom designed and fabricated by TRAVIS TUCK, METAL SCULPTOR, for a client in Bat Cave, N.C.! Measuring 4 ft. 6 in. long, the weathervane is copper repousse with 23K gold leaf details. Write in No. 394



WHITEHALL PRODUCTS, LTD. fabricated this cast-aluminum "feathervane." Painted gold bronze, it is mounted on an adjustable base and has 3-1/2 in. directionals. Write in No. 398



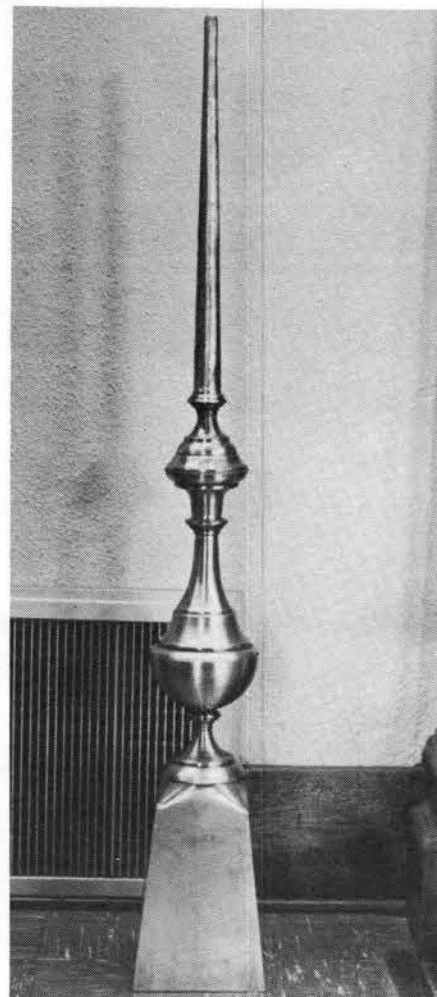
This gaff-rigged schooner that holds a full-bodied hull is a stock weathervane at FLORENTINE CRAFTSMEN. It's crafted in copper with bronze cardinals and copper balls and measures 31 in. H x 28 in. L. Write in No. 439



This "Great Blue Heron" weathervane is a stock item from OUTWARD SIGNS. It is a full-bodied copper piece that is available polished or verdigris. This particular bird has a 25 in. wing span, 28 in. beak-to-talon, and 22 in. high. Write in No. 400



Al Denninger, of DENNINGER CUPOLAS & WEATHERVANES, poses at the foot of one of a pair of 8 ft. tall aluminum finials. Write in No. 730



This finial is an example of W.F. NORMAN's custom capabilities. Spun in either zinc or copper, the finials can be as high as 4 ft.; bases are custom. Write in No. 52

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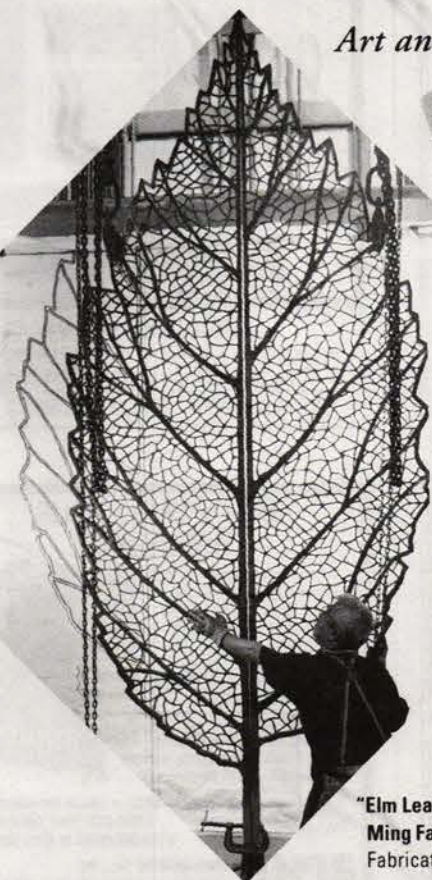
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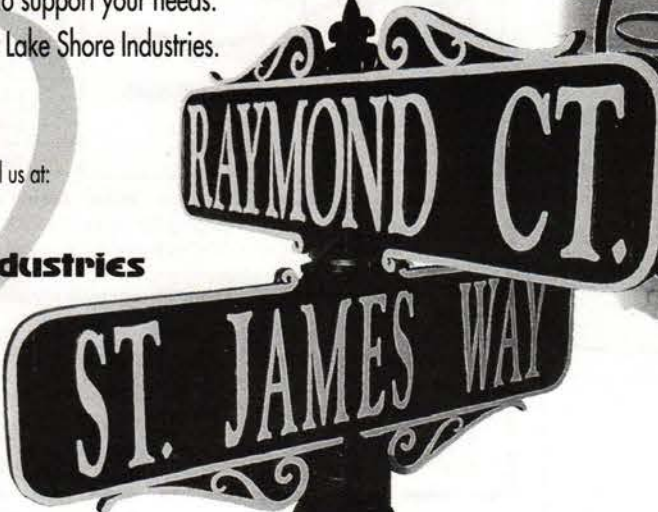
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WRITE IN NO. 840

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A porch offers a place to relax and commune with nature. Unfortunately, you may not realize you're hanging out with a little brown rot, dry rot, and a few thousand termites.

QUICK! Think of a pleasant memory associated with a porch. It probably isn't that difficult, as they are perhaps the most versatile of places in a house, where one can eat, sleep, socialize, or just watch the world. (My earliest porch memories are of sitting with my brother on my grandmother's porch after dinner. He would sneak out a handful of green olives with red pimentos; then we'd throw them in the street and watch cars squash them.)

Now, let your mind wander below the floorboards to the substructure. EEEK! Not only may mice, skunks, and snakes be making homes there, but all sorts of wood-eating fungi and boring insects are probably colonizing this dark unexplored world. Without periodic inspection and maintenance, a neglected porch gradually becomes a nightmare of trouble which, unchecked, can spread to the adjoining house. Porches are especially vulnerable to water damage, partially from direct exposure to rain and snow, but largely from improper drainage from roof and ground runoff. It is not unusual for a carpenter to be hired to replace some rotting floorboards, and then discover more extensive damage to structural members like the ledger board and joists. Neither is masonry trouble-free, as problems can arise due to normal freeze-thaw cycles and uneven settling of the ground.

For the homeowner, the promise of relaxation and leisure has to be postponed until an exterminator is called, flashing is installed, gutters and down spouts are moved, preservative is applied, the ground is regraded, all the rotted

ornamentation is either replaced or repaired, and the structure has been re-caulked and repainted.

The popularity of porches in America has risen and fallen over the past 200 years. They are once again in vogue, both for new construction and thoughtful restoration, and have become attractive real estate selling points. Renewed interest in historically appropriate restoration has led to an increased market in stock period porch components. But given the explosion of ornamental styles after the introduction of machine-made parts in the late 1800's, exact matching will in all likelihood require custom work. Rather than replace all the old parts with a budget variety of new matching parts, it is often more economical to custom reproduce badly damaged pieces, and use epoxy consolidation or patches on other parts.

WHO'S ON THE SOURCELIST

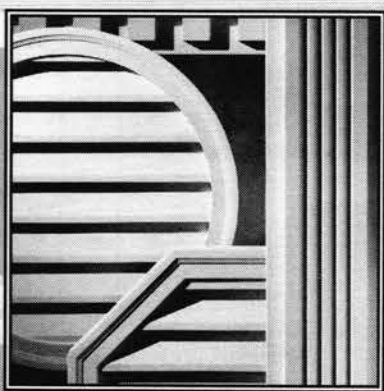
The 35 suppliers on the following *SourceList* were chosen from the responses of 140 companies we contacted. These firms range from small specialized turning shops to large inventory mail order operations. In total, they offer a comprehensive assortment of replacement parts for historically styled porches and exterior ornamentation for a variety of budgets.

We have also included companies that offer polymer elements, such as vinyl lattice — a superb replacement choice for porch aprons where thin wood lattice disintegrates quickly.

For more information on period styling and how to restore historical porches, we highly recommend "Preserving Porches" by Renee Kahn and Ellen Meagher, published in 1990 by Henry Holt & Co., Inc., New York (To order, call Holt's Publicity Dept. at (212) 886-9273.) — SG

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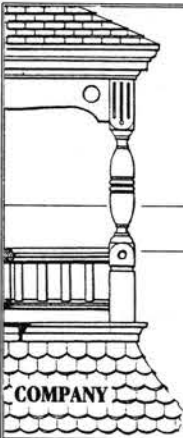
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Abaroot Mfg. Co. 21757-1/2 S. Western Ave., Dept. TB Torrance, CA 90501 310-320-8172	Exterior wood columns in hardwoods and softwoods; fluting, capitals, bases, pilasters ... all turnings.	Free <i>Write in No. 805</i>	Posts, newels, balusters	Stavework, solid wood				Finials	75%
American Porch Brackets 137 Lincoln Ave., Ste. 16, Dept. TB Dover, NJ 07801 800-745-5277, 201-989-5378	Victorian- and Colonial-styled porch brackets made from high-impact special order polystyrene porch brackets. Available in 7 traditional styles up to 2 ft. tall, and a full 2 in. thick. Products are easily installed using adhesive and caulking. Brackets range from \$16-\$19 each.	Free <i>Write in No. 840</i>			✓				1%
American Wood Column Corp. 913 Grand St., Dept. TB Brooklyn, NY 11211 718-782-3163	Custom turnings to match originals; wood columns and balusters in any dimension — fluted, plain, or twisted. All types of porch parts: Balusters, newel posts, all size finials in any wood specified.	Free	Balusters, newels, corbels, finials, balls	Stavework, solid wood					90%
Anthony Wood Products, Inc. P.O. Box 1081, Dept. TB Hillsboro, TX 76645 817-582-7225	Complete line of Victorian gingerbread, porch and newel posts, balusters, finials, fretwork, brackets, and corbels.	Free <i>Write in No. 602</i>	Posts, newels, balusters		✓	✓		Finials	20%
Architectural Products By Outwater 52 Passaic St., Dept. TB Wood Ridge, NJ 07075 800-835-4400, 201-365-2002	Extensive selection of polymer moldings, balustrades, ceiling medallions, chair rails, columns, capitals, and more in a large variety of sizes, styles, shapes, and materials. Wide selection of polymer lattice and sculpture.	Free <i>Write in No. 493</i>		Polymer		✓	✓	Polymer moldings	5%
Chadsworth Columns P.O. Box 53268, Dept. TB Atlanta, GA 30355 404-876-5410	Architecturally correct columns in all the classical orders. Available in traditional stavework wood, fiberglass, PolyStone polyester, E.P.S., stone, and marble. Structural and ornamental. Also: Furniture and mantels.	Free <i>Write in No. 158</i>		Stavework					50%
CinderWhit & Company P.O. Box 843, Dept. TB Wahpeton, ND 58074 701-642-9064	Produces historically and architecturally correct wood turnings for restoration projects or for new commercial and residential construction. Can duplicate existing turnings, create custom designs, or offers standard designs.	Free <i>Write in No. 788</i>	Balusters, posts, newels, spindles	Solid wood					60%
Classic Architectural Specialties 3223 Canton St., Dept. TB Dallas, TX 75226 214-748-1668	Full-service supplier of architectural components. Furnishes complete packages for period commercial exteriors, from millwork to street lighting.	Free <i>Write in No. 904</i>	Posts, newels, balusters	Stavework, polymer	✓	✓		Sawn balusters and ornament	10%
Cross Industries 3174 Marjan Dr., Dept. TB Atlanta, GA 30340 404-451-4531	Cross 'VinylLattice,' with matching vinyl accessories, has the appearance of a fine wood product with a flat enamel finish. Overlapping strips create traditional lattice. Several lattice patterns, sizes, weights, and colors.	Free <i>Write in No. 23</i>				✓	✓		10%
Cumberland Woodcraft Co., Inc. P.O. Drawer 609, Dept. TB Carlisle, PA 17013 717-243-0063	Complete line of Victorian and other period millwork, carvings, fixtures, decorative treatments, carvings, turnings, brackets, fretwork, gazebos, and more. Custom work available.	Free <i>Write in No. 131</i>	Balusters, posts, newels	Solid wood	✓	✓		Sawn balusters, corbels, finials, spandrels, fretwork, storm/screen doors	15%
J.A. Dawley Fine Woodworking 1938 Chase Rd., Dept. TB Waterloo, NY 13165 315-539-2555	Specializes in turning true classical columns, interior stain grade as well as exterior. Custom duplications of turnings: Columns, newels, posts, balusters. Other millwork products include pilasters, pedestals, brackets, and corbels.	Free <i>Write in No. 420</i>	Balusters, posts, newels	Stavework, solid wood	✓	✓	✓	Storm/screen doors, trellis work	90%
Fagan Design & Fabrication, Inc. 44 Railroad Ave., Dept. TB West Haven, CT 06516 203-937-1874	Custom hand-turned columns, cylinders, rope twists, and spirals, etc. Also offers capitals and other carvings. Can produce exact duplicates for restoration.	Free <i>Write in No. 821</i>	Balusters, posts, newels	Stavework, solid wood	✓	✓		Curved moldings	100%
Gingerbread Man Woodworks P.O. Box 59, Dept. TB Noel, MO 64854 417-775-2553	Victorian gingerbread millwork: Spandrels, brackets, balusters, turned posts, and gazebos. Specializes in custom designs.	Free <i>Write in No. 815</i>	Balusters, posts, newels		✓	✓	✓		25%
Henderson, Black, & Green P.O. Box 589, Dept. TB Troy, AL 36081 205-566-5000	PermaCast columns with FRP shaft, polyurethane sleeve type cap and base, which are weatherproof and low maintenance. Other products include polyurethane pediments, pilasters, moldings, medallions, and cartouches. Also, FRP/fiberglass.	Free <i>Write in No. 38</i>	Spindles, posts, newels	Stavework, fiberglass		✓			10%
Josef's Art Wood Turning & Son, Inc. 71 Sewell St., Dept. TB Hempstead, NY 11550 516-489-3080	Wood columns; interior or exterior; load bearing or non-load bearing; fluted, reeded, roped styles. Also posts, balusters, table & chair legs, and other turnings; hand rails, moldings, balls, dowels & rosettes; custom or production.	Free <i>Write in No. 31</i>	Balusters, newels, posts	Stavework		✓		Capitals, bases	95%
Mad River Woodworks P.O. Box 1067, Dept. TB Blue Lake, CA 95525 707-668-5671	Produces full line of Victorian millwork and turned products, including gingerbread, baluster, finials, corbels, moldings, and screen doors. Products are primarily manufactured in redwood.	Free <i>Write in No. 35</i>	Balusters, posts, newels, finials, balls		✓	✓		Sawn spandrels	65%
Mansion Industries, Inc. P.O. Box 2220, Dept. TB Industry, CA 91746 800-423-6589, 818-968-9501	Turned posts and porch posts in lengths from 9 in. to 120 in., and 2x2 in., 3x3 in., 4x4 in., and 6x6 in. widths. Available untreated or CCA treated. Species available: Hemlock Douglas fir, ponderosa pine, redwood, and cedar; stock program only.	Free <i>Write in No. 865</i>	Balusters, posts, newels	Solid wood	✓	✓			0%
Mohamad Wood Turning Co., Inc. 28 Meadow St., Dept. TB Brooklyn, NY 11206 718-417-0025	Specializes in custom wood turnings and columns in all classical styles; load-bearing for interior or exterior use. Can furnish fluting, reeding, rope twists, and custom carving. Fractional columns available.	Free <i>Write in No. 5</i>	Balusters, posts, newels	Stavework		✓		Steps and stairs, spirals, twists, reeding, fluting	90%

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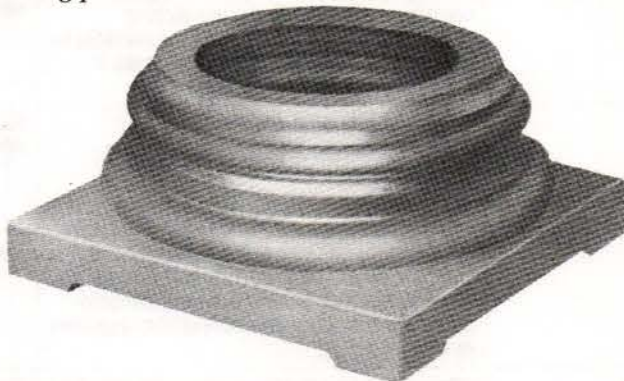
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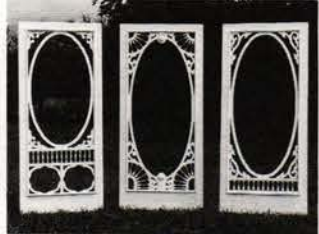
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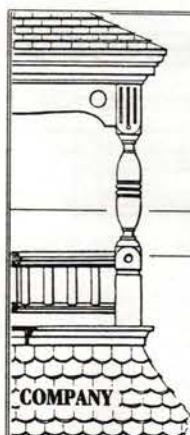
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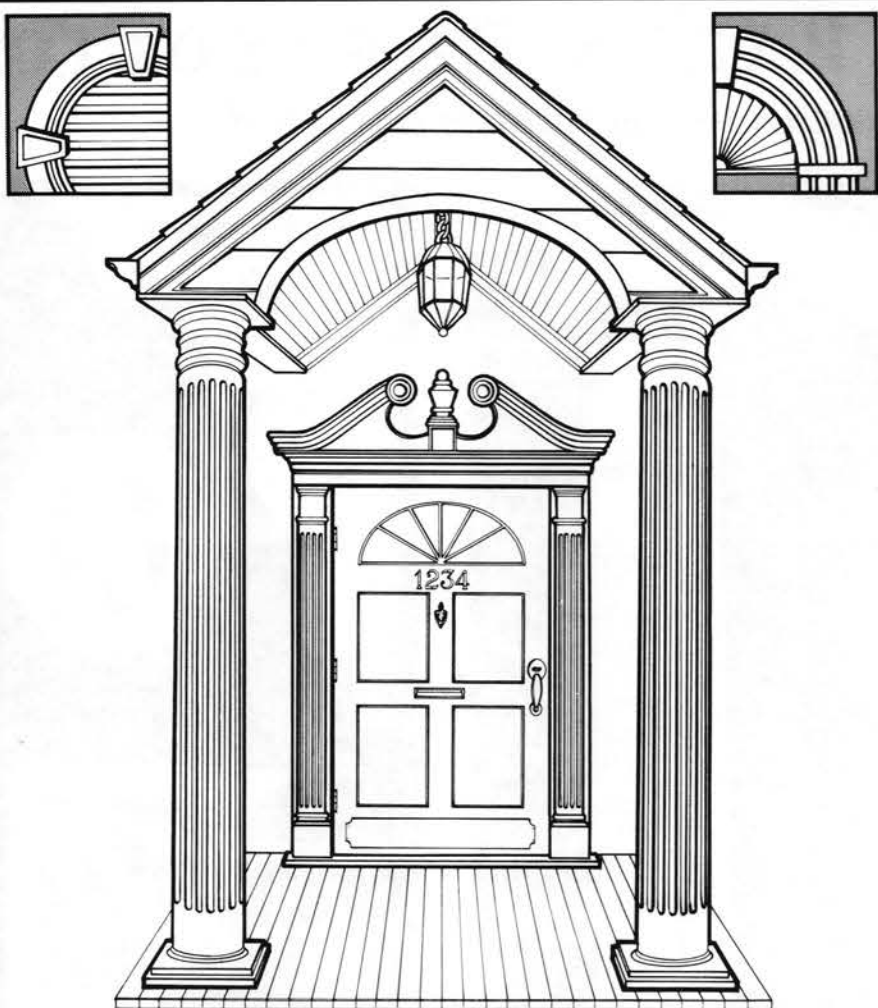


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COMPANY	Specialty	Literature	Turnings	Columns	Gingerbread	Railings	Lattice	Other	% Custom
Morgan Stairways 35280 Scio-Bowerstown Rd., Dept. TB Bowerston, OH 44695 614-269-2221	Exterior rail and porch systems: 8 ft., 9 ft., and 10 ft. porch posts, newels, balusters, rail, shoe rail, and balustrade kits for porches.	Free Write in No. 829	Balusters, posts, newels			✓			0%
NT Hartmann Sanders Co. 4340 Bankers Cir., Dept. TB Atlanta, GA 30360 404-449-1561	Custom architectural wood columns and capitals in wood, composites, and fiberglass for interior and exterior applications. Columns are classically correct in design — from shaft entasis to capital details.	Free Write in No. 912		Stavework, fiberglass, polymer					100%
New England Woodturners P.O. Box 7242, Dept. TB New Haven, CT 06519 203-776-1880	Column and porch post lengths up to 16 ft.; diameters to 14 in.; baluster duplicating; all styles; redwood, cedar, cypress, and pine. Also, 1-1/2 in. Dia. x 3 in. H. path markers with decorative finials.	Free Write in No. 354	Balusters, posts, newels	Stavework, solid wood	✓	✓			100%
Newmeyer Lumber Co. P.O. Box 36, Dept. TB Rahway, NJ 07065 908-388-2500	Specialty lumber company provides interior and exterior railings, balustrades, and turnings. Stocks over 100 turnings and 15 rail profiles.	Free Write in No. 883	Balusters, posts, newels	Stavework, granite-looking polymer/resin		✓		Custom handrail profiles, finials	90%
North Field Restorations P.O. Box 741, Dept. TB Rowley, MA 01969 508-948-2722	Architectural salvage company carrying antique wide plank flooring, casework, windows, and other architectural wood elements.	Free Write in No. 326						Windows, wide plank flooring	0%
Pagliaccio Turning & Milling P.O. Box 225, Dept. TB Woodacre, CA 94973 415-488-4333	Standard and custom columns and other turnings in all the classical styles. Solid and hollow turnings from 1-5/8 in. to 24 in. x 20 ft.; some are load bearing. Stair parts, railings, balusters, and custom work.	Free Write in No. 707	Balusters, posts, newels	Stavework with true entasis		✓		Finials, sawn balusters, brackets, spandrels, rosettes, curved rail	80%
Gail Redman Woodturnings 77 14th St., Dept. TB San Francisco, CA 94103 415-431-1595	Custom hand-turned architectural and furniture components: Balusters, newel posts, finials, porch posts, corner blocks, table legs, etc. Made from Western red cedar, redwood, or hardwoods.	Free Write in No. 627	Balusters, posts, newels, spindles, finials, furniture components	Stavework				Cornerblocks, rosettes, buttons	80%
Schwerd Manufacturing Co. 3215 McClure Ave., Dept. TB Pittsburgh, PA 15212 412-766-6322	Column specialists. Standard and custom columns can be furnished with matching pilasters. Complete aluminum bases available for even-diameter exterior columns. 10 styles of capitals.	Free Write in No. 161		Stavework					95%
Sheppard Woodworks 114 Elliot Ave. W., Dept. TB Seattle, WA 98119 206-282-4661	This firm offers architectural woodturning (including fluting), millwork specialties, and custom furniture.	Free Write in No. 781	Balusters, posts, newels, furniture legs, finials	Solid wood				Rosettes	100%
Silverton Victorian Millworks P.O. Box 2987, Dept. TB Durango, CO 81302 303-259-5915	Manufactures a complete line of exterior and interior millwork, including Victorian, Country, and Southwest styles. Premium and standard-quality wood products available off-the-shelf from its large inventory.	Free	Balusters, posts, newels, finials/drops	Stavework, polymer/resin	✓	✓		Steps, sawn balusters	10%
L.J. Smith, Inc. 35280 Scio-Bowerstown Rd. Dept. TB Bowerston, OH 44695 614-269-2221	Offers a wide variety of stair part styles including: Hampton, fluted, twisted, octagonal, and Colonial turnings. Custom turnings also available. Full line of stairway installation tools and hardware.	Free Write in No. 905	Balusters, posts, newels					Custom carvings	5%
Somerset Door & Column Co. P.O. Box 755, Dept. TB Somerset, PA 15501 814-445-9608	Millwork shop provides high-end custom products, including turnings and porch parts (newels, balusters, posts), stile-and-rail panel doors, casework and moldings, and classical columns in standard or custom designs.	Free Write in No. 66	Balusters, posts, newels	Stavework, solid wood, fiberglass		✓		Screens	50%
Style-Mark, Inc. 960 W. Barre Rd., Dept. TB Archbold, OH 43502 800-446-3040, 419-445-0116	High-density polyurethane millwork and building accents: Porch panels, spandrel sections, gingerbread, exterior and interior moldings, gable louvers, door entrance systems — including pilasters, mantles, and pediments.	Free Write in No. 485			✓			Porch panels, spandrel sections	25%
Turncraft P.O. Box 2429, Dept. TB White City, OR 97503 800-423-3311	Carries wood turnings, spindles, balustrades, and porch posts. Wood columns and ornamental capitals, both in Architectural Series and stock residential patterns. Species include pine, poplar, hemlock, redwood, and oak.	Free Write in No. 15	Balusters, posts, newels	Stavework				Knee brackets, corbels	5%
Vintage Wood Works P.O. Box R #2600, Hwy. 34 S. Dept. TB Quinlan, TX 75474 903-356-2158	Victorian millwork, interior & exterior. Extensive selection of solid wood porch parts are featured in a 96-page catalog. These include turned posts, turned and sawn balusters, railings, brackets, corbels, & custom-length spandrels.	Free Write in No. 318	Balusters, posts, newels	Solid wood	✓	✓		Sawn balusters, beaded ceilings, screen doors, custom-length spandrels	20%
Wood Factory 111 Railroad St., Dept. TB Navasota, TX 77868 409-825-7233	Historically accurate millwork reproductions, both interior and exterior: Doors, screen doors, gingerbread, benches, gazebo parts, finials, stair parts, railings, porch parts, custom-turned lighting posts. Custom matching available.	Free Write in No. 712	Balusters, posts, newels, finials, lamposts	Stavework, solid wood	✓	✓		Sawn balusters, spandrels, casings, moldings, fancy cut shingles, corner blocks, gable ornaments, crestings	95%
Worthington Group P.O. Box 868, Dept. TB Troy, AL 36081 800-872-1608, 205-566-4537	Supplier of true classical columns in all the basic orders. Also: FiberClassics columns and balustrades, panel and cornice moldings, brackets, mantels, and furniture.	Free Write in No. 163	Balusters, piers, corner posts, finials	Wood, FRP				Moldings	40%



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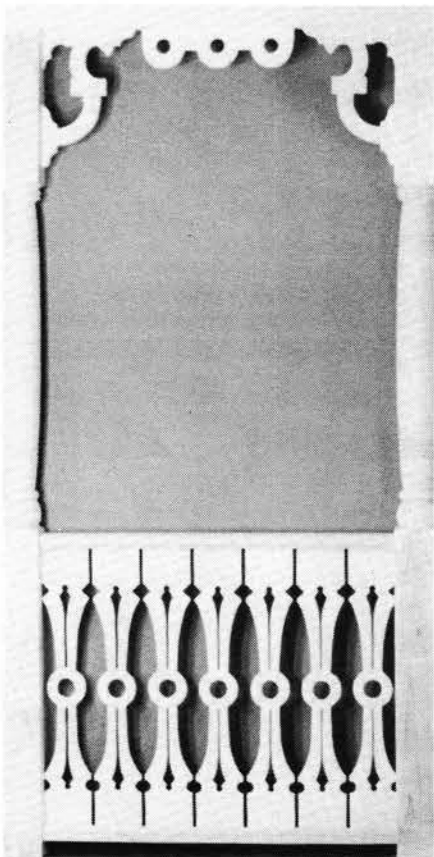
WRITE IN NO. 38

TURNINGS & PORCH PARTS PORTFOLIO

For more information on these companies, consult the SourceList on pages 18-20.



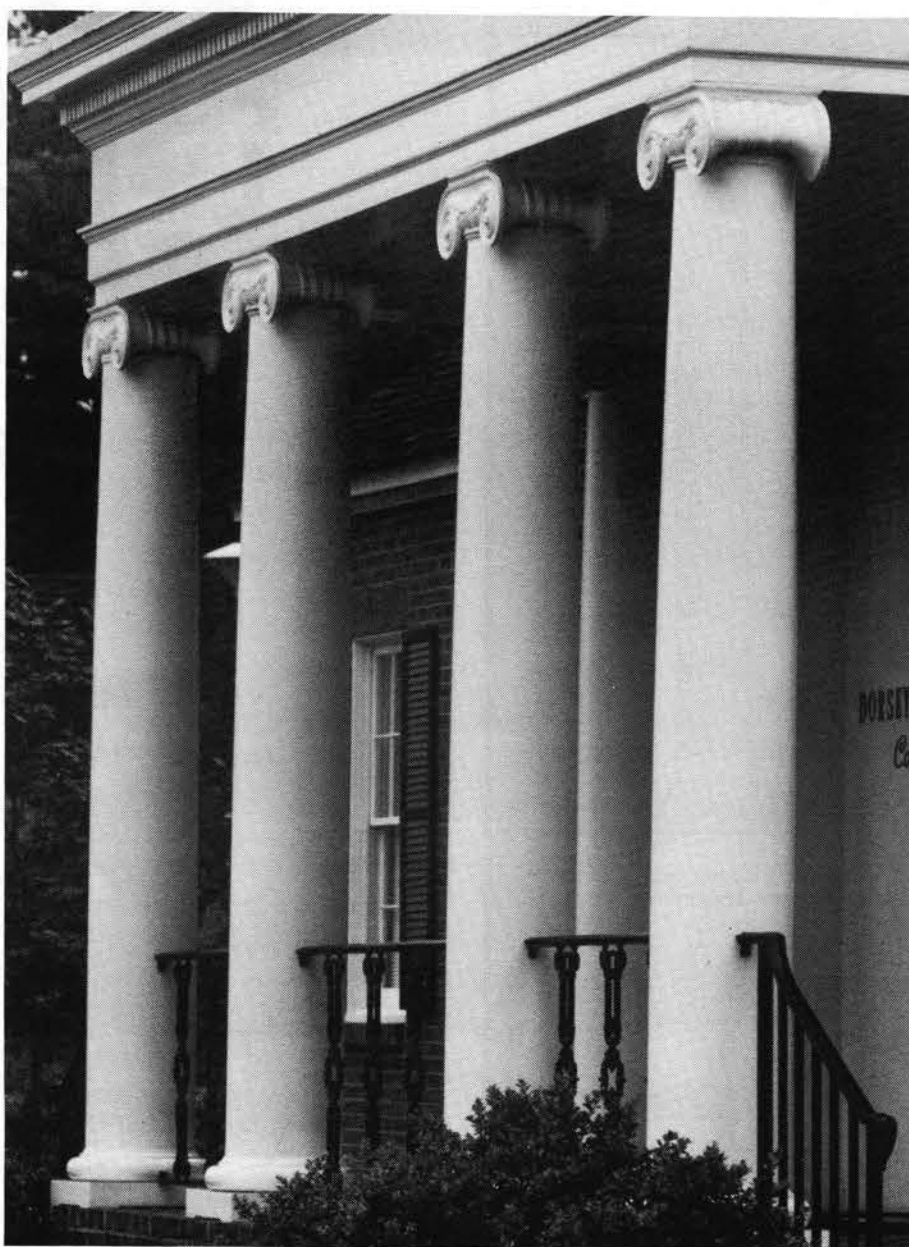
This porch design incorporates CROSS INDUSTRIES "VINYLattice," a durable, maintenance-free alternative to wood lattice. Write in No. 23



Among SILVERTON VICTORIAN MILLWORKS' exterior millwork products are these Victorian sawn balusters, turned porch posts, corner brackets, and repeating ornaments.



This Roman Corinthian capital by SOMERSET DOOR & COLUMN CO. is made of composition material that stands up to environmental exposure. A wood plug designed to transmit the load directly to the column is included when column and cap are purchased together. Write in No. 66



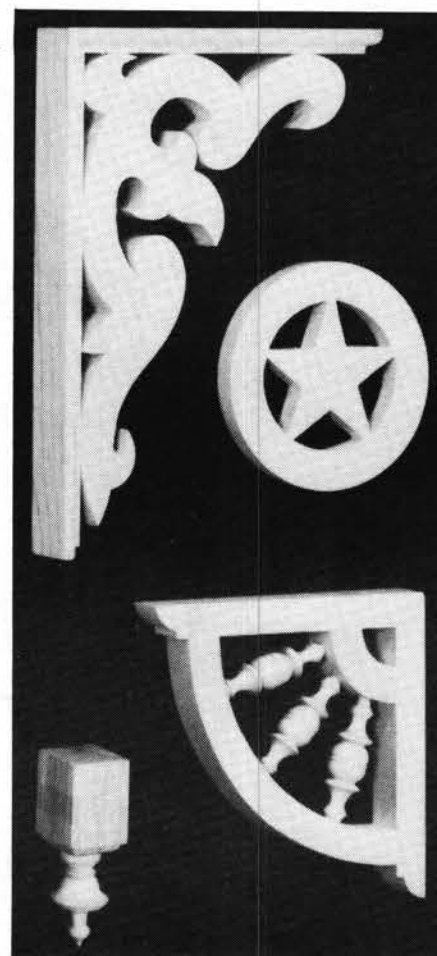
Ionic columns by HARTMANN SANDERS CO. were used to create this impressive building entrance. Write in No. 912



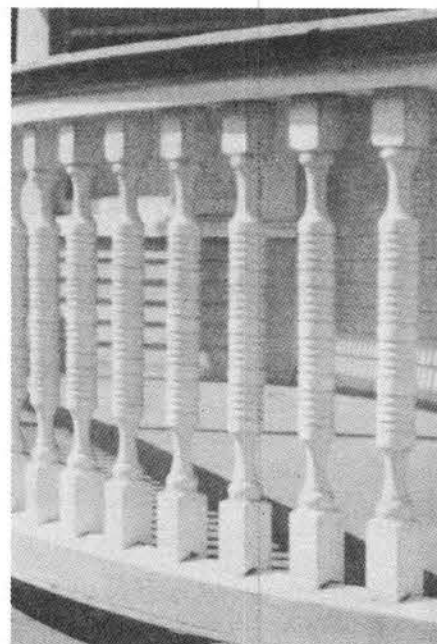
The above porch turnings were duplicated by CINDERWHIT & CO. from an original period design. Write in No. 788



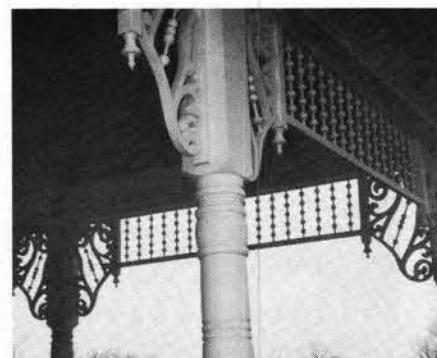
Complete porch parts were done by J.A. DAWLEY FINE WOODWORKING: Brackets and porch skirt were custom made; posts were splined, then chamfered; and the railing system was designed to direct water away from seams. Write in No. 420



The star applique, square drop, "Parrot's Beak" bracket, and spindle fan bracket shown above are a small sampling of VINTAGE WOODWORK's complete selection of period porch parts. Write in No. 318



This curved balustrade with turned balusters was created by NEW ENGLAND WOODTURNERS. (Photo: ernst) Write in No. 354



Spandrels by GINGERBREAD MAN WOODWORKS soften the roof line of this period porch. Write in No. 815

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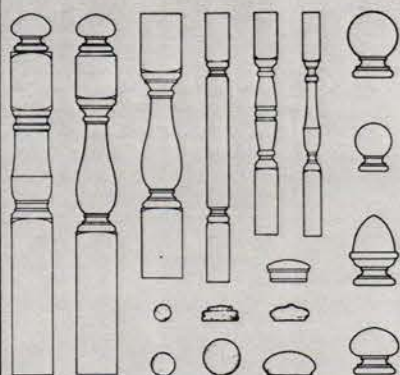
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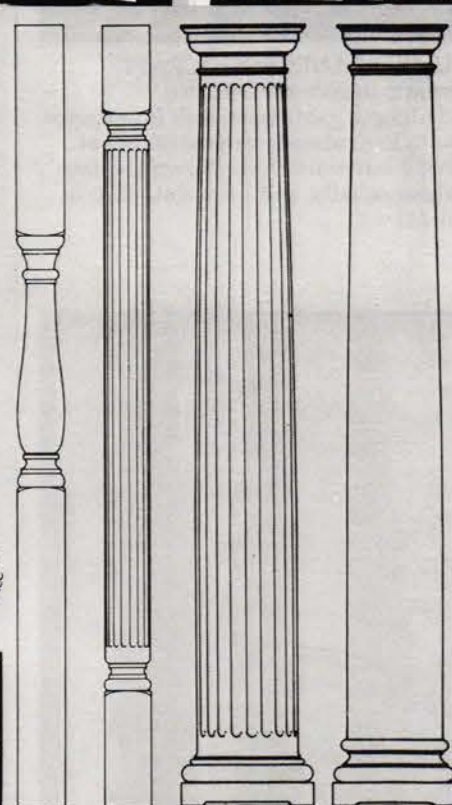
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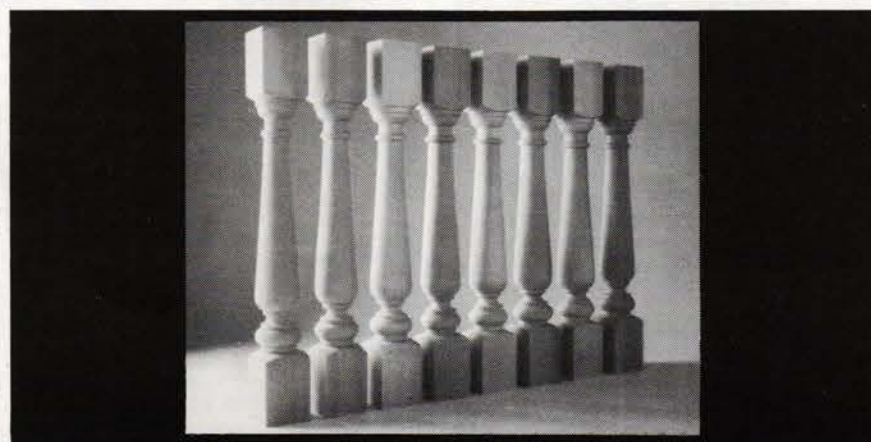
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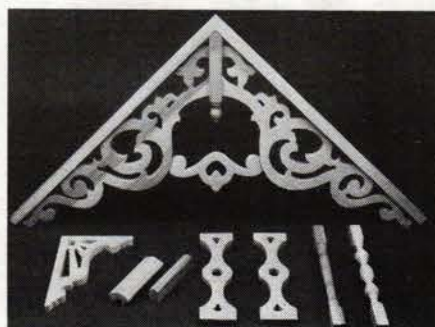
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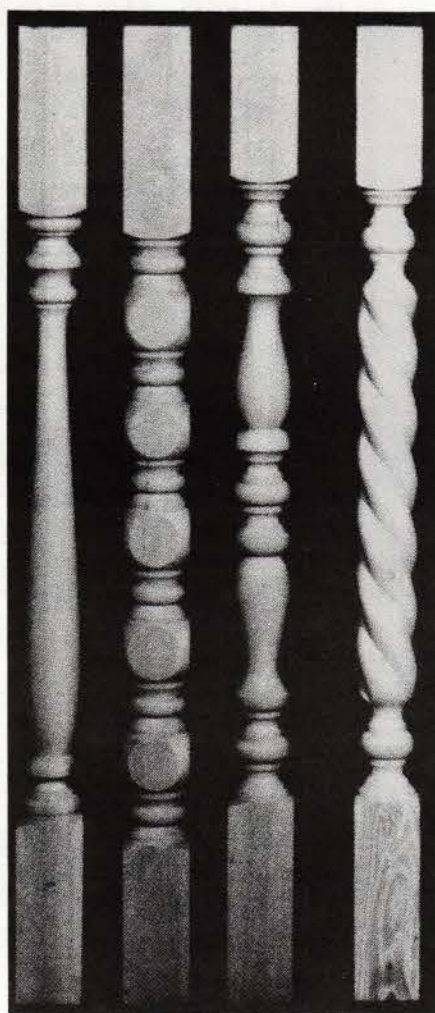
WRITE IN NO. 627

TURNINGS & PORCH PARTS PORTFOLIO

For more information on these companies, consult the SourceList on pages 18-20.



CUMBERLAND WOODCRAFT recently introduced this 4 ft. side-length gable treatment for exterior use to their already extensive line of period millwork. Also shown are new balusters, rails, and a bracket. Write in No. 131



These graceful turnings from **MANSION INDUSTRIES, INC.**, are just a small sampling of the company's Victorian porch parts and gingerbread details. Write in No. 865

Instant Access to Product Literature for TURNINGS & PORCH PARTS

If your office qualified to receive the 1994 TRADITIONAL BUILDING CATALOG, you'll find pre-filed product literature there for the following suppliers of Turnings & Porch Parts:

- Chadsworth, Inc.
- Cross Vinyl Lattice
- Cumberland Woodcraft
- Schwerd Mfg.
- Style-Mark
- Turncraft
- Worthington Group



Working from a circa 1905 photo, **MAD RIVER WOODWORKS** reproduced the turnings and wood ornamentation on the lower portion of this retail store in Ferndale, Calif. Write in No. 35



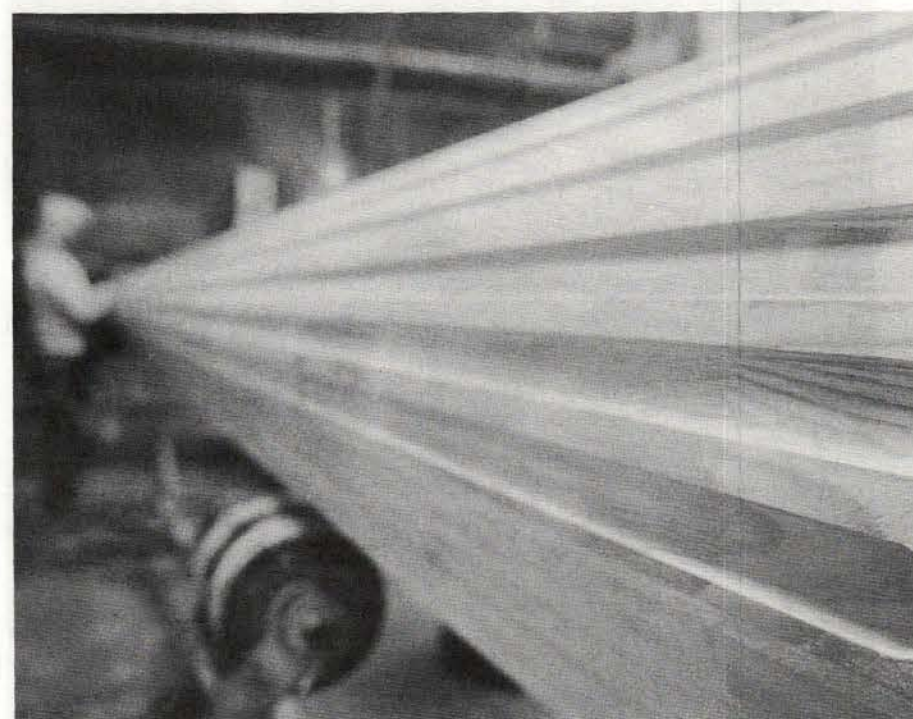
These landing and stair parts were tuned and sawn by **CLASSIC ARCHITECTURAL SPECIALTIES**. Write in No. 904



This porch features **AMERICAN PORCH BRACKETS'** glue-on polystyrene brackets. Write in No. 840



A sampling of handsome balusters, finials, and buttons by **GAIL REDMAN WOODTURNINGS**. Write in No. 627




Close-up view of the production of a monumental fluted wood column in the workshop of **HENDERSON, BLACK & GREENE, INC.** Write in No. 38



ABAROOT MFG. CO. produced this giant, turned-redwood post (5 ft. tall; 4 ft. in diameter), one of a pair located at the entrance to a Thousand Oaks, Calif. restaurant. Write in No. 805

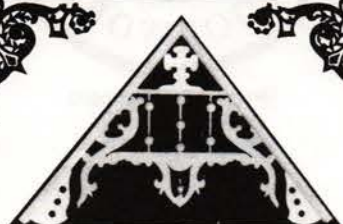
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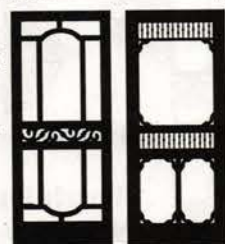
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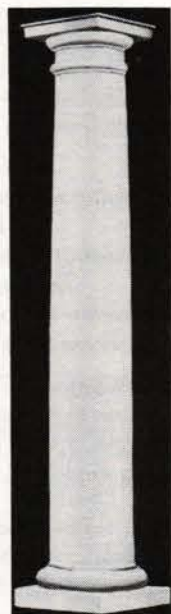
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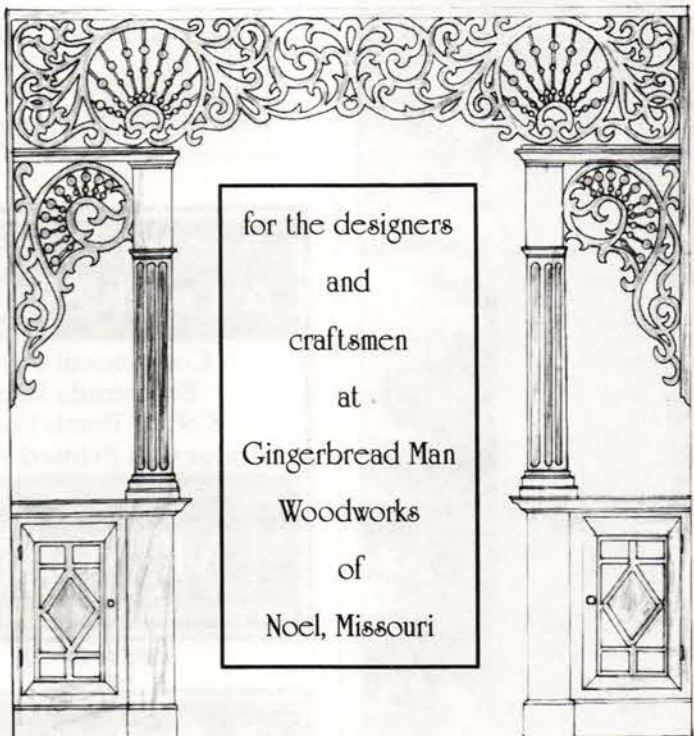
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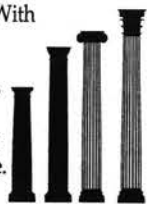
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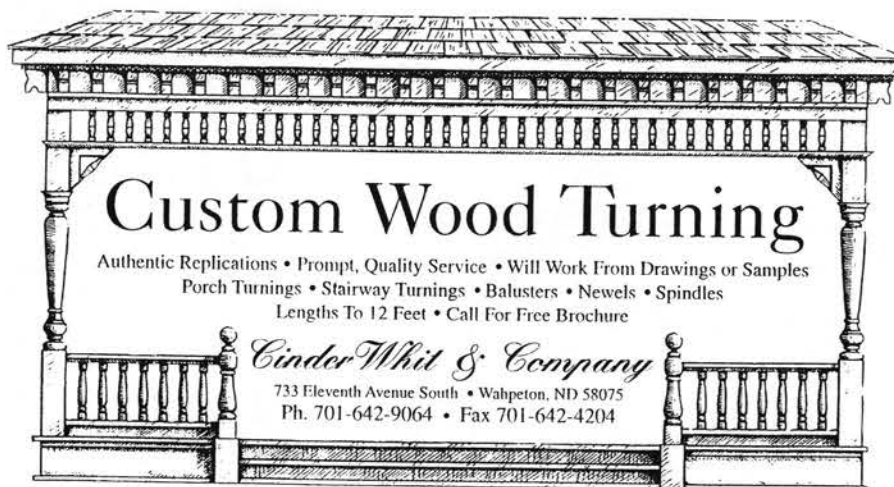
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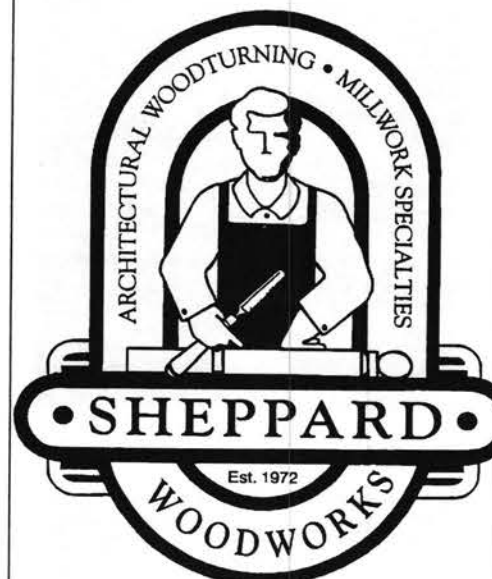
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WRITE IN NO. 915

Manage Your Roof Like A Capital Investment

A major roof should be treated like a piece of capital equipment. Organizing a Roof Management Program can extend roof life — and provide a significant return on investment.

By William R. Steinmetz, Jr., Midland Engineering Co.

Today's managers of traditional or historic buildings have more roofing system choices than ever before, a situation that makes roof maintenance and care increasingly complex. Managing roof systems to minimize long-term costs — and to avoid total replacement for as long as possible — has become an essential part of the maintenance professional's job.

Traditional steep-slope roofing systems, such as natural slate, clay tile, wood shakes and shingles, copper, lead-coated copper and terne, have been around for years and are prized for their beauty, durability and ease of maintenance.

In the last half-century, newer steep-slope roofing systems have become available, offering alternatives to traditional materials. Systems such as concrete tile, fiber-cement shingles, fiberglass shingles and shakes, pre-engineered sheet metal, and granular coated metal often combine light weight, economy, and easy installation with a wide selection of colors and textures.

A church, courthouse, or other building of traditional design may be protected by one or more of these steep-slope roofing systems. In addition, the building may have flat-or low-slope roof surfaces covered by built-up asphalt, coal tar, or single-ply systems.

All of these roofing systems are valuable assets, and all of them have different lifespans and maintenance needs. However, because they are not as visible as a parking lot, entryway, or other more noticeable parts of a building, they are often neglected. Roofs should be managed like other building assets, with the long-term goal of conservation and retention of value. Although roofs eventually wear out, a good roof management program will extend the life of

the roof — and do so as economically as possible.

Besides maximizing the lifespan of roofing systems, roof management programs have beneficial secondary effects. Roof management allows the maintenance manager to assess the condition of all roofing systems, schedule maintenance and replacement to fit management's schedule, and perhaps most important, plan roofing expenditures over long periods, avoiding budgetary crises associated with unexpected roofing failures.

Roof Management: More Than Just Maintenance

It is important to make the distinction between a roof management program and a maintenance program. Although maintenance must be included in roof management, it is only one phase of a roof management program. Roof maintenance involves regular inspection and repair of all problems discovered. It is a reactive program that responds to problems that have already manifested themselves. Roof management, on the other hand, is a proactive program that allows the maintenance professional to anticipate future roofing needs and plan for their implementation.

The elements of a roof management program are inspection, documentation, planning and scheduling, and maintenance and replacement.

Inspection

A roof management program should include a comprehensive inspection at

continued on page 28

THE SHELTERING ROOF

Traditional roofing materials — both natural and simulated — are available in greater profusion than ever before. The reason why is rooted deep in the psyche of the customer.

A roof is much more than something to keep the water out. It has an emotional and symbolic significance that goes back to the earliest constructed dwellings. The roof symbolizes shelter. The phrase "having a roof over my head" is one of the most common expressions used to denote home. When you ask a child to draw a house, a salient feature of the illustration is invariably a prominent gabled roof . . . usually with a chimney and a curl of rising smoke.

A large, visible roof is a satisfying expression of refuge from life's storms, especially if the roof materials have a texture that suggests substance, solidity, and permanence. That is why the traditional roofing materials — wood shingles, tiles, slates, and even standing-seam metal — have such appeal. The visible thickness and texture of these materials render them psychologically comforting, as compared with the thin, insubstantial blandness of the standard asphalt-shingle roof.

The need to satisfy customer demand for the reassuring characteristics of thick traditional roofing materials has prompted some asphalt shingle manufacturers, notably CertainTeed, to introduce premium-grade asphalt shingles that

provide a much deeper shadow line than conventional asphalt shingles — a third dimension that brings them closer to traditional materials.

With the growing interest in both restoring traditional roofs and installing traditional-looking materials on new buildings, manufacturers are rising to the occasion, increasing the variety of traditional materials offered and coming up with a wide range of substitute materials that provide the visual characteristics needed to create a "Sheltering Roof."

The Buyer's Guide presented on the following pages is the largest and most detailed roundup of suppliers of traditional roofing materials ever published. We think you'll find it quite useful.

Many traditional roofs are more expensive on a first-time basis . . . but they can be last longer than modern materials if the roof is managed like the important asset it is. That's why we asked Bill Steinmetz of Midland Engineering to provide some guidelines for the techniques of roof management from the vantage point of a major contractor experienced with a wide range of roofing materials. — CL

MANAGING YOUR ROOF

continued from page 27

least once a year and preferably semi-annually (before and after winter). Inspection involves a review of all roofing system components, including flashings, terminations, membrane, deck, insulation, and surfacing, if any. It should also include an examination of all factors that affect the roofing system, such as roof penetrations, rooftop equipment and traffic, drainage and discharges, and local climate and pollution.

If this inspection is the first in the roof management program, it should include a core analysis to determine all roofing components and their condition. Nondestructive moisture surveys, such as infrared, also can be used on low-slope systems to help determine the extent of water infiltration into the roofing system. This information can be used for recommendations to remove only saturated areas. All nondestructive moisture surveys should be verified with a roof core analysis, the only way to determine the actual condition of the roof.

The initial inspection also should locate and document all areas of deterioration and defects. This information can be used to help determine the remaining life expectancy, which should be recorded. Subsequent inspections can track the severity of problems or, if repairs are made, their effectiveness. Subsequent inspections can also help estimate the remaining life expectancy. Inspections should include minor maintenance, such as cleaning gutters and drains, removing general debris, and caulking.

Documentation

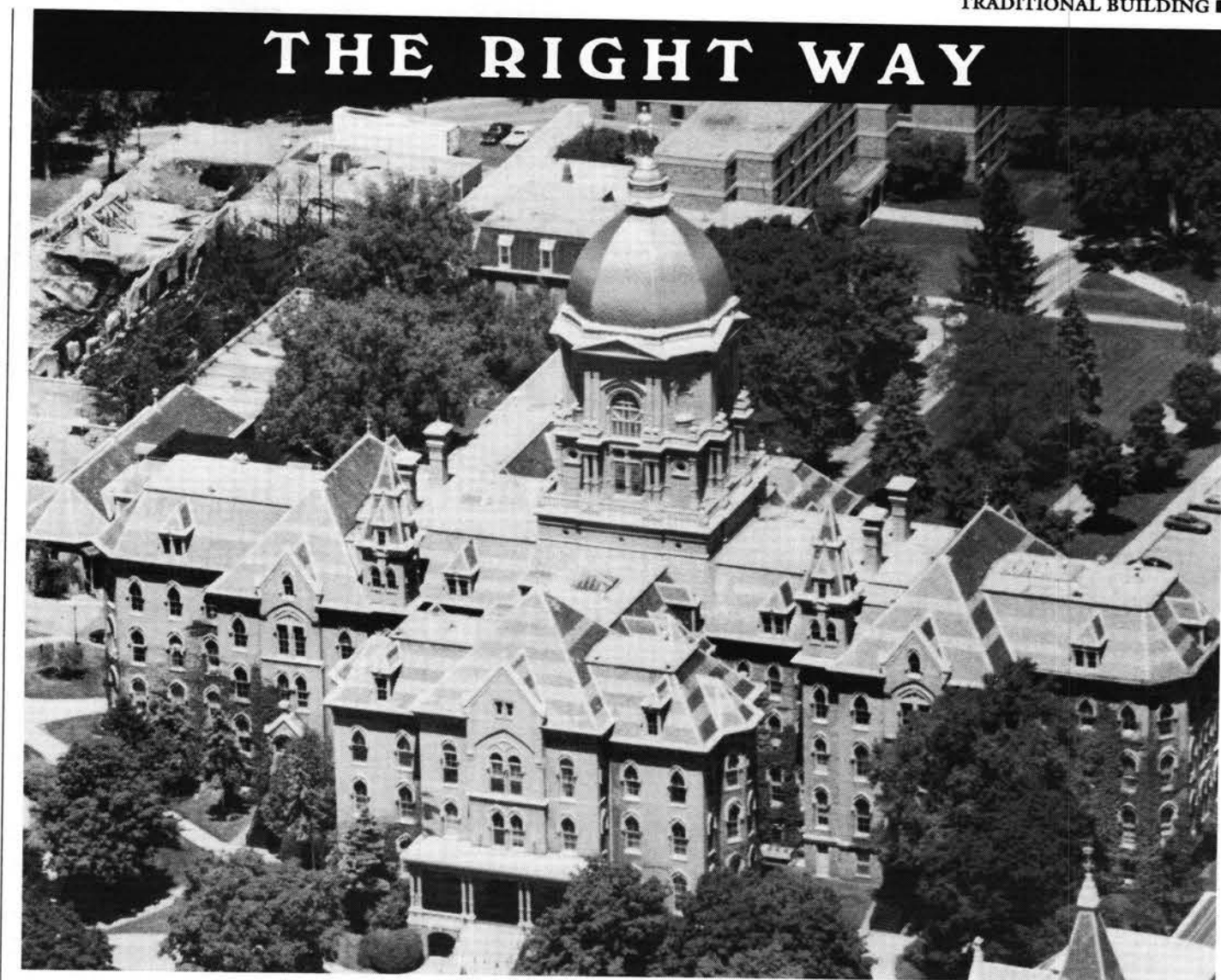
Documentation involves setting up a master file on each roofing system. The file should include the names of the architect, general contractor, and roofing contractors; construction completion date; original plans and specifications; design dead and live load; deck type and gauge; insulation type, thickness, number of layers, method of attachment, and rated R value; all warranties; history of repairs; type of building occupancy, and all inspection data, including a small-scale roof sketch that shows all penetrations, rooftop equipment, major construction details, access points and drainage details. Aerial photographs, when available, can be very helpful in documenting building orientation and physical detail.

Although this information can be difficult to assemble for existing buildings — especially very old ones — it is important to obtain as much information as possible and then document all on-going activities.

Keeping this historical profile of a roof makes it easier to make educated decisions about the roofing system. For example, the maintenance manager who does not know what components of the roofing system are in place, how old they are, the types of repairs that have been made, or who installed the system could unwittingly select the same contractor to install the same system that has had problems in the past.

Planning And Scheduling

Once the roof inspection has been completed and the master file is in



THE RIGHT WAY



TOP PHOTO: Restoration work on the Administration Building at Notre Dame University will be easier and less costly because the university has closely monitored the structure — with special attention to its roof. Careful documentation since the building was constructed ensures that accuracy will be maintained. (Photo: Midland Engineering)

BOTTOM PHOTO: Atop Notre Dame University's Administration Building, representatives from the architectural firm of Ellerbe Becket, Minneapolis, Minn., inspect the sheet metal facade of the famed Golden Dome in preparation for the building's restoration. (Photo: Midland Engineering)

place, necessary repairs or replacements can be planned and scheduled. The plan should cover a three to five year period. The amount of time covered depends on budgetary concerns, future building use, corporate or foundation culture, and the severity of the problems.

Repairs can be divided into two

categories: Immediate repairs to those conditions that are causing, or will soon cause, leaks; and elective repairs — those which can safely be put off for a while. A comprehensive three to five year plan allows the company to schedule future roofing work

to suit its plans and to allocate money for future roofing budgets. The plan can and should be changed any time it is deemed necessary.

Maintenance & Replacement

The last phase of roof management is

continued on page 30

ROOFS DON'T HAVE TO BE PLAIN.



Tapered Barrel Clay Tile, Ornamental Lead Work, Miami, FL



Steam Bent Cedar Shingle, Izu, Japan



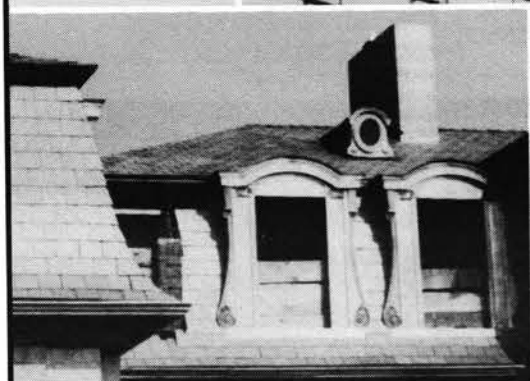
Sheet Metal Cornice, Charleston, SC



Standing Seam Copper, Cypress Shingle Tower, Charleston, SC



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WRITE IN NO. 743

MANAGING YOUR ROOF

continued from page 27



Inspection, maintenance, and repair of sheet metal ornament, such as this monumental tower finial, is part of an organized roof management program. (Photo: Midland Engineering)

implementing the plan and completing repairs and replacements. This phase includes the selection of a professional roofing contractor. A simple way to learn as much as possible about a contractor is to include a pre-qualification form in the contract documents. This form should allow management the opportunity to assess a contractor's financial health, knowledge, and experience with various roofing systems and provide information about his roof management program. A professional roofing contractor will be happy to answer questions. A contractor who is unwilling to cooperate should be avoided.

Depending on the building owner's experience with local roofing contractors, he or she may or may not

want to involve outside roofing professionals, such as an architect or a roofing consultant, in a roof management program. Their knowledge and experience with roof management should be determined in the same manner as a roofing contractor's.

The building owner may also wish to do some of the roof management program in-house. The amount depends on the maintenance manager's knowledge and experience with roofing systems and the ability to conduct inspections, document activities, and file and retrieve this information.

Performing some of these tasks in-house can save money. However, selecting a professional roofing contractor to implement a comprehensive roof management program

provides access to expert experience and knowledge, and trained inspectors. The contractor will also be responsible — and accountable — for performing the inspections and keeping the master file updated.

Cost Savings

The savings that can be realized through a roof management program are substantial, especially when considered over the long term. For example, a typical 20,000-sq.-ft. low-slope roof, which might cost \$100,000 today, should last 20 years, if properly installed and managed. However, if not properly managed, the roof may last for only 10 years before needing replacement, which, with inflation, would cost \$150,000, bringing the to-

TRADITIONAL BUILDING ■

tal 20-year cost to \$250,000.

If that same roof receives proper management each year at an average cost of about \$0.10/sq.ft. (or \$2,000/yr.), the total management cost at the end of 20 years would be \$40,000, resulting in savings of \$110,000.

Many variables can affect this cost, and no two roofs are alike. But the bottom line is that an organized roof management program will help a roofing system last longer and will save money over the life of the system.

Roof management allows your organization to determine the state of its roof system, document what has been done to it, and plan for future maintenance and eventual replacement. The cost of treating illness is greater than the cost of staying healthy. Physicians, dentists, and car mechanics all say that. The same is true for a roofing system. A soundly executed program will keep the roof healthy, extend its lifespan, and prevent costly unexpected roof failure. ■

William Steinmetz, Jr., is Corporate Services Manager of Midland Engineering Company, South Bend, Ind. Founded in 1922, Midland Engineering Co. applies all types of roofing systems for historic buildings throughout the U.S. For contact information, please see their SourceList entry.

Instant Access to Product Literature for ROOFING & ACCESSORIES

If your office qualified to receive the 1994 TRADITIONAL BUILDING CATALOG, you'll find pre-filled product literature there for the following suppliers of traditional Roofing & Accessories:

- Boston Valley Terra Cotta
- Chicago Metallic
- Historical Arts & Casting
- LMC Corp.
- Nixalite of America
- Slate International
- Supradur
- Vande Hey-Raleigh
- Vulcan Supply
- W.F. Norman Corp.
- Zaleski Snow Guards

CONSEQUENCES OF THE WRONG WAY



LEFT: Lack of a roof management program brought the once-proud Athenaeum building in downtown Indianapolis literally within inches of the wrecking ball. The severely deteriorated structure was saved by a group of concerned citizens who are now in the midst of an ambitious fund-raising drive to restore the building's former grandeur. (Photo: Midland Engineering)



RIGHT: As part of the roof restoration program, a worker from Midland Engineering installs hexagonal slates on a spire of the historic Athenaeum Building. Listed in the National Register of Historic places, the Athenaeum is widely regarded as one of the finest examples of German Renaissance Revival architecture in the U.S. It was designed by Bernard Vonnegut, grandfather of novelist Kurt Vonnegut. (Photo: Midland Engineering)

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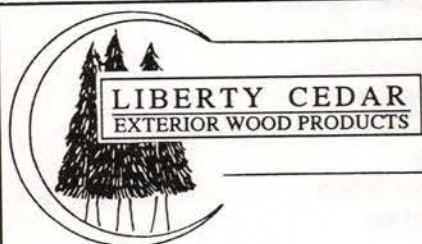
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WRITE IN NO. 562

Buyer's Guide to Products & Services for TRADITIONAL ROOFING

On the following 9 pages, you'll find detailed information and photos on 102 companies that supply products and services for the installation and restoration of traditional roofing systems. It's the *largest and most detailed Buyer's Guide to historical roofing in print.*

Companies in **Boldface** have placed ads in this Roofing Section that you can consult for additional detail. The page numbers for roofing advertisers can be found in Div. 7 in the Table of Contents (p. 4).

Alphabetical Index of Roofing Products & Services:

BIRDPROOFING INSTALLATION

Ditmars Roofing & Sheetmetal
Glenco Construction
Hassler Steeplejack Co.
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Bird Master Control Systems
Ecopic
Newport Fastener
Nixalite of America, Inc.

COATINGS, Roof Repair

Armor Plus International
Preservation Products
Tuff-Kote Co.

COPPER PATINAS — See PATINAS

CORNICES, Sheet Metal

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Midland Engineering Co.
NIKO Contracting Co.
Petersen Aluminum Corp.
Rogers Roofing Co.
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Heather & Little, Ltd.
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Mad River Woodworks
Midland Engineering Co.
Northern Roof Tile Sales
Robinson Iron
Rogers Roofing Co.
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Roof Accessories Co.
Zurn Roof Drains

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Liberty Cedar
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Northern Roof Tile Sales
Passaic Metal Products

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Empire Scroll Flashing
Heather & Little, Ltd.
Merchant & Evans
Midland Engineering Co.
Newport Fastener
NIKO Contracting Co.
Benjamin Obdyke, Inc.
Passaic Metal Products
Petersen Aluminum Corp.
Rogers Roofing Co.
Vermont Slate & Copper Services
Vulcan Supply

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NIKO Contracting Co.
Passaic Metal Products
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Vulcan Supply
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Westal Contracting

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Follansbee Steel
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Midland Engineering Co.
Benjamin Obdyke, Inc.
Passaic Metal Products
Petersen Aluminum Corp.
Rogers Roofing Co.

continued on page 34

How This BUYER'S GUIDE Was Created

To ensure that the information in this Buyer's Guide is as up-to-date as possible, the Editors sent questionnaires to the 276 suppliers and contractors in our Vendor database who deal with roofing. The Editors wanted to determine which of these companies had an interest in serving the special needs of the TRADITIONAL BUILDING audience. From the responses, the Editors selected 102 suppliers of roofing products and services as being most relevant to our readers' requirements.

NOTE: The Supplier SourceList (pp. 38-42) contains three basic types of suppliers: (1) Roofing product manufacturers; (2) Roofing contractors; and (3) Roofing material brokers and resellers. The "Specialty" box in the Supplier SourceList will indicate which type of company a particular supplier is. In some of the categories listed here in the Alphabetical Index of Products, all three types of companies can supply an item. You thus have the option of dealing with a primary manufacturer or a service company that may be located closer to you.

To contact any of these companies, see the SourceList starting on p. 38.



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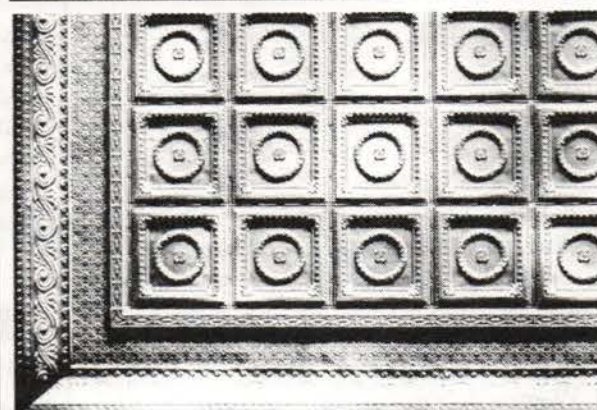
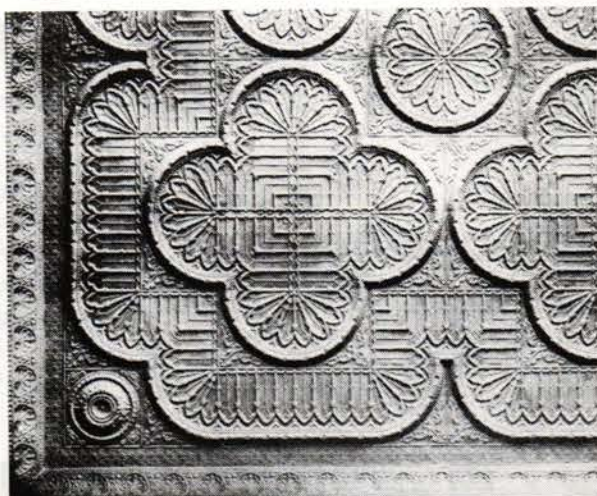
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WRITE IN NO. 867

ROOFING INDEX

continued from page 32

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Passaic Metal Products
Rogers Roofing Co.

INSTALLATION, Specialty Roofing

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NIKO Contracting Co.
Renaissance Roofing
Albert J. Wagner & Son
Westal Contracting

LEADER BOXES

C&H Roofing
Commercial Gutter Systems
Conklin Metal Industries
Contemporary Copper
Ditmars Roofing & Sheetmetal
Durable Slate Co.
Heather & Little, Ltd.
Midland Engineering Co.
Passaic Metal Products
Rogers Roofing Co.
Vermont Slate & Copper Services
Vulcan Supply
W.F. Norman Corp.

LEADERS, Specialty

Conklin Metal Industries
Ditmars Roofing & Sheetmetal
Durable Slate Co.
Heather & Little, Ltd.
Midland Engineering Co.
Passaic Metal Products
Rogers Roofing Co.
Vulcan Supply

LIGHTNING PROTECTION SYSTEMS

Adornments For Architecture
Hassler Steeplejack Co.
Passaic Metal Products
Robbins Lightning, Inc.

ORNAMENT, Cast Metal Roofing

Adornments For Architecture
Heather & Little, Ltd.

Historical Arts & Casting
Johnson Atelier
Midland Engineering Co.
Robinson Iron
Stewart Ironworks

ORNAMENTAL METAL INSTALLATION

Adornments For Architecture
C&H Roofing
Durable Slate Co.
Glenco Construction
Hassler Steeplejack Co.
Heather & Little, Ltd.
Historical Arts & Casting
Midland Engineering Co.
NIKO Contracting Co.
Renaissance Roofing
Rogers Roofing Co.
Stewart Ironworks
Albert J. Wagner & Son
Westal Contracting

PATINAS & COPPER COATINGS

JAX Chemical Company
Passaic Metal Products
Patina Finishes & Copper Coatings
Sur-Fin Chemicals
Triple-S Chemical

REPAIR, Roofing

C&H Roofing
Durable Slate Co.
Glenco Construction
Hassler Steeplejack Co.
Heather & Little, Ltd.
Midland Engineering Co.
NIKO Contracting Co.
Renaissance Roofing
Rogers Roofing Co.
Tile Roofs, Inc.
Albert J. Wagner & Son
Westal Contracting

SHAKES & SHINGLES, Technical Data

Cedar Shake & Shingle Bureau

SHAKES, Wood

(1) Red Cedar; (2) Southern Pine; (3) White Cedar;
(4) White Oak; (5) White Pine; (6) Other Wood

Bear Creek Lumber (1)
C&H Roofing (1, 2, 3, 4, 5)
Cedar Plus (1)
Cedar Shake & Shingle Bureau (1, 6)
Cumberland Woodcraft Co. (1)
Eiger Building Products (6)
Liberty Cedar (1)
Mad River Woodworks (6)
North Jersey Restoration Services (6)
Rogers Roofing Co. (1)
Shamokin Trail Shingle Co. (4, 5, 6)
Sky Lodge Farm (3, 5)
South Coast Shingle Co. (1)
Superior Shakes of Texas (2)

SHEET METAL, Ornamental

(see also "ORNAMENTAL METAL INSTALLATION")

Adornments For Architecture
Contemporary Copper
Ditmars Roofing & Sheetmetal
Durable Slate Co.
Hassler Steeplejack Co.
Heather & Little, Ltd.
Midland Engineering Co.
NIKO Contracting Co.
Passaic Metal Products

Petersen Aluminum Corp.
Rogers Roofing Co.
Vermont Slate & Copper Services
Vulcan Supply
W.F. Norman Corp.
Albert J. Wagner & Son

SHINGLES, Asphalt — Thick Profile

CertainTeed

SHINGLES & SHAKES, Technical Data

Cedar Shake & Shingle Bureau

SHINGLES, Fancy Butt Wood

Bear Creek Lumber
C&H Roofing
Cedar Plus
Cedar Shake & Shingle Bureau
Cumberland Woodcraft
Liberty Cedar
Mad River Woodworks
Rogers Roofing Co.
Shamokin Trail Shingle Co.
South Coast Shingle Co.

SHINGLES, Fire Retardant Wood

Bear Creek Lumber
C&H Roofing
Cedar Plus
Cedar Shake & Shingle Bureau
Liberty Cedar
Rogers Roofing Co.
South Coast Shingle Co.

SHINGLES, Metal

(1) Aluminum; (2) Copper; (3) Galvanized; (4)
Steel, Painted; (5) Terne; (6) Other

Alcoa Building Products (1)
Berridge Mfg. Co. (3, 4)
C&H Roofing (1, 2, 3, 4, 5)
Classic Products (1, 3, 4)
Conklin Metal Industries (1, 2, 3, 5)
Ditmars Roofing & Sheetmetal (1, 2, 4)
Gerard Roofing Technologies (3, 6)
Heather & Little, Ltd. (1, 2, 3, 5, 6)
Newport Fastener (2)
Passaic Metal Products (1, 2, 5)
RTS Company (1, 4) Rheinzink Canada, Ltd. (6)
Rogers Roofing Co. (2, 5)
Tropic Top (1)
W.F. Norman Corp. (2, 3)
Zappone Manufacturing (1, 2)

SHINGLES, Polymer

Eiger Building Products

SHINGLES, Wood

(see SHAKES for wood types)

Bear Creek Lumber
C&H Roofing
Cedar Plus
Cedar Shake & Shingle Bureau
Cumberland Woodcraft Co.
Liberty Cedar
Rogers Roofing Co.
Shamokin Trail Shingle Co.
Sky Lodge Farm
South Coast Shingle Co.
Superior Shakes of Texas

continued on page 36

To contact any of these companies, see the SourceList starting on p. 38.



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- ▲ Unaffected by ponding water.
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WRITE IN NO. 229

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WRITE IN NO. 56

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WRITE IN NO. 315

If

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- Boston Valley Terra Cotta
- Chicago Metallic • Historical Arts & Casting • LMC Corp. • Nixalite of America • Slate International
- Supradur • Vande Hey-Raleigh
- Vulcan Supply • W.F. Norman Corp.
- Zaleski Snow Guards

Greenstone Slate

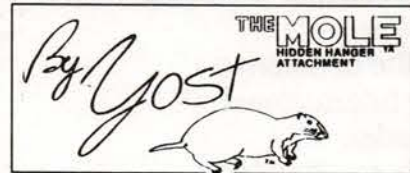
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- ◆ Jobsite consulting service
- ◆ Landmark projects a specialty

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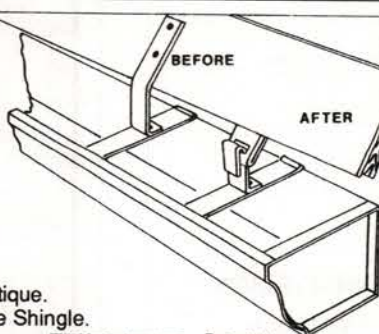
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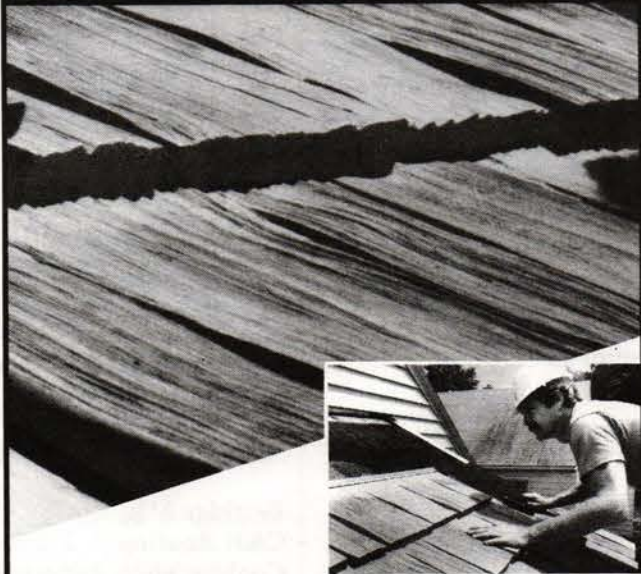
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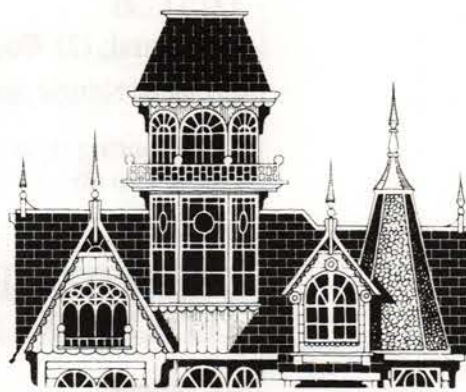
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- AMERICAN TRADITIONAL
- HEXAGONAL
- DUTCH LAP
- TWIN LAP

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WRITE IN NO. 927

ROOFING INDEX

continued from page 34

SHINGLES & SHAKES, Custom Wood

Bear Creek Lumber
C&H Roofing
Cedar Plus
Cedar Shake & Shingle Bureau
Liberty Cedar
Rogers Roofing Co.
Shamokin Trail Shingle Co.
Sky Lodge Farm

SKYLIGHTS, Metal-Framed

Ditmars Roofing & Sheetmetal
Midland Engineering Co.
Benjamin Obdyke, Inc.
Passaic Metal Products
Rogers Roofing Co.
Vulcan Supply
Albert J. Wagner & Son

SLATE, Natural

(1) New; (2) Salvage

C&H Roofing (1,2)
Ditmars Roofing & Sheetmetal (1,2)
Durable Slate Co. (1, 2)
Evergreen Slate Co. (1)
Greenstone Slate (1)
Hilltop Slate Co. (1)
Midland Engineering Co. (1,2)
New England Slate Co. (1, 2)
New Foundland Slate Co. (1)
Northern Roof Tile Sales (1)
Renaissance Roofing (1, 2)
Rising & Nelson Slate Co. (1)
Rogers Roofing Co. (1, 2)
Slate International (1)
South Coast Shingle Co. (1)
Tile Roofs, Inc. (1, 2)
TileSearch, Inc. (1, 2)
Vermont Slate & Copper Services (1)
Vermont Structural Slate (1)

SLATE SUBSTITUTES

(1) Ceramic; (2) Concrete; (3) Fiber-Cement;
(4) Mineral-Polymer; (5) Other

Celadon Ceramic Slate
CertainTeed (5)
Monier Roof Tile (2)
Northern Roof Tile Sales (2, 5)
Renaissance Roofing (1, 2, 3)
Richmond Precast Concrete Products Co. (2)
South Coast Shingle Co. (1, 2, 3)
Supradur Mfg. Corp. (3)
Tile Roofs, Inc. (2)
Vande Hey-Raleigh Mfg. (2)

SNOW GUARDS

Ditmars Roofing & Sheetmetal
Heather & Little, Ltd.
Historical Arts & Casting
L.J. Fasteners
Midland Engineering Co.
Monier Roof Tile
Mullane Snow Guards
New England Slate Co.
Northern Roof Tile Sales
Benjamin Obdyke, Inc.
Passaic Metal Products
Rogers Roofing Co.
Snow Management Systems
Vermont Slate & Copper Services

SPECIALTIES, Roofing

Armor Plus International

Chicago Metallic Corp.
Copper Sales, Inc.
Durable Slate Co.
Follansbee Steel
Heather & Little, Ltd.
Mad River Woodworks
Midget Louver Co.
New England Slate Co.
Passaic Metal Products
Preservation Products
TileSearch, Inc.
Tuff-Kote Co.

STANDING SEAM & SHEET METAL ROOFING

(1) Aluminum; (2) Copper; (3) Custom;
(4) Galvanized; (5) Lead-Coated Copper;
(6) Steel, Painted; (7) Terne; (8) Terne-Coated
Stainless; (9) Zinc; (10) Other

Berridge Mfg. Co. (6)
C&H Roofing (1, 2, 4, 5, 7)
Conklin Metal Industries (1, 2, 4, 5, 7, 8)
Copper Sales, Inc. (1, 2, 3, 4, 5, 6, 7, 8, 10)
Ditmars Roofing & Sheetmetal (1, 2, 3, 4, 5, 6, 7, 8, 9)
Durable Slate Co. (2, 3, 5, 7)
Follansbee Steel (7, 8)
Heather & Little, Ltd. (1, 2, 3, 4, 5, 7, 8, 9)
Merchant & Evans (1, 2, 3, 4, 5, 6, 9)
Met-Tile, Inc. (10)
Metal Building Components (MBCI) (1, 9)
Metal Sales Manufacturing Corp. (3, 4, 6)
Midland Engineering Co. (1, 2, 3, 4, 5, 6, 8, 9)
Monier Roof Tile (2, 3)
NIKO Contracting Co. (1, 2, 3, 4, 5, 7, 8)
Passaic Metal Products (1, 2, 3, 4, 5, 6, 7, 8, 9)
Petersen Aluminum Corp. (1, 3, 4, 6, 7, 8)
Rheinzink Canada, Ltd. (9)
RTS Company (1, 6)
Rogers Roofing Co. (3)
Vermont Slate & Copper Services (1, 2, 3, 4, 5)
Vande Hey-Raleigh Mfg. (2, 3)
Vulcan Supply (2, 3, 5)
Westal Contracting (2, 3, 5)

STEEPLEJACK SERVICES

Durable Slate Co.
Glenco Construction
Hassler Steeplejack Co.
Landmark Rigging, Inc.
Midland Engineering Co.
NIKO Contracting Co.
Yankee Steeplejack Co.

TERNE METAL

Follansbee Steel

THATCH

(1) Natural; (2) Wood Shingle Simulation;
(3) Metal Shingle Simulated

C&H Roofing (1, 2)
Tropic Top (3)

TILE FASTENERS & ATTACHMENT SYSTEMS

L.J. Fasteners
Midland Engineering Co.
Monier Roof Tile
Newport Fastener
Northern Roof Tile Sales
Renaissance Roofing

TILES, Roofing

(1) Clay; (2) Concrete; (3) Custom Colors
& Shapes; (4) Fiber-Cement; (5) Metal;

(6) Polymer; (7) Salvage; (8) Other

Berridge Mfg. Co. (5)
Boston Valley Terra Cotta (1)
C&H Roofing (7)
Celadon Ceramic Slate (1)
Classic Products (5)
Ditmars Roofing & Sheetmetal (1, 2, 4)
Eiger Building Products (6, 8)
Gerard Roofing Technologies (8)
Gladding McBean (1)
Hardie Building Products (4)
Ludowici Rooftile, Inc. (1)
Metal Sales Manufacturing Corp. (5)
Midland Engineering Co. (4, 5, 7)
Monier Roof Tile (2, 3)
Newport Fastener (8)
Northern Roof Tile Sales (1, 2, 3)
RTS Company
Renaissance Roofing (1, 2, 3, 4, 7, 8)
Richmond Precast Concrete Products Co. (2)
Rogers Roofing Co. (1, 3, 5, 7)
South Coast Shingle Co. (1, 2, 4, 5)
Supradur Mfg. Corp. (1, 4)
Tile Roofs, Inc. (1, 2, 3, 7)
TileSearch, Inc. (1, 3, 5, 7)
Vande Hey-Raleigh Mfg. (2, 3)

TOOLS, Roofing

Conklin Metal Industries
Passaic Metal Products
Stortz & Son, Inc.
TileSearch, Inc.
Vermont Structural Slate

VENTILATING FANS

Ditmars Roofing & Sheetmetal
Hassler Steeplejack Co.
Heather & Little, Ltd.
Merchant & Evans
Midland Engineering Co.
NIKO Contracting Co.
Petersen Aluminum Corp.
Rogers Roofing Co.
Vermont Slate & Copper Services
Vulcan Supply
W.F. Norman Corp.

VENTS, Roof

Adornments For Architecture
Air Vent, Inc.
Cor-A-Vent
Midget Louver Co.
Monier Roof Tile
Northern Roof Tile Sales
Benjamin Obdyke, Inc.
Passaic Metal Products
South Coast Shingle Co.
Vulcan Supply
Zappone Manufacturing ■

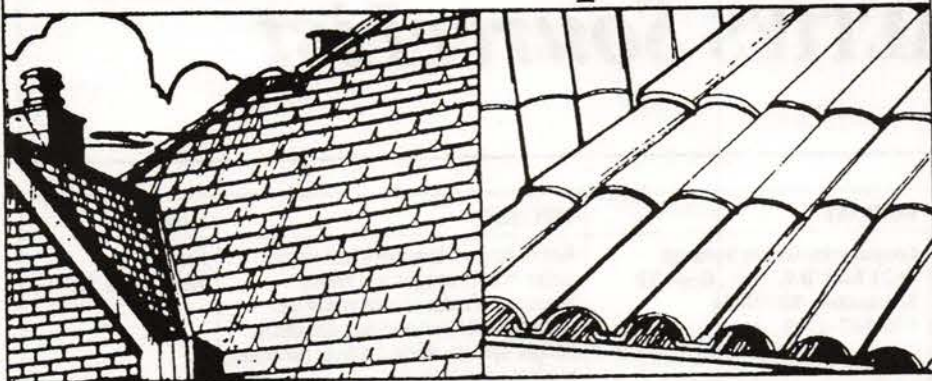
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- Chicago Metallic
- Historical Arts & Casting
- LMC Corp.
- Nixalite of America
- Slate International
- Supradur
- Vande Hey-Raleigh
- Vulcan Supply
- W.F. Norman Corp.
- Zaleski Snow Guards

To contact any of these companies, see the SourceList starting on p. 38.

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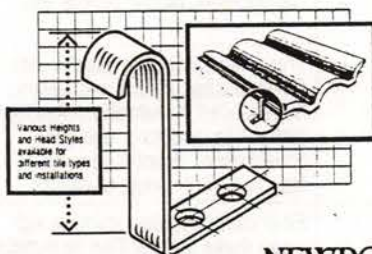
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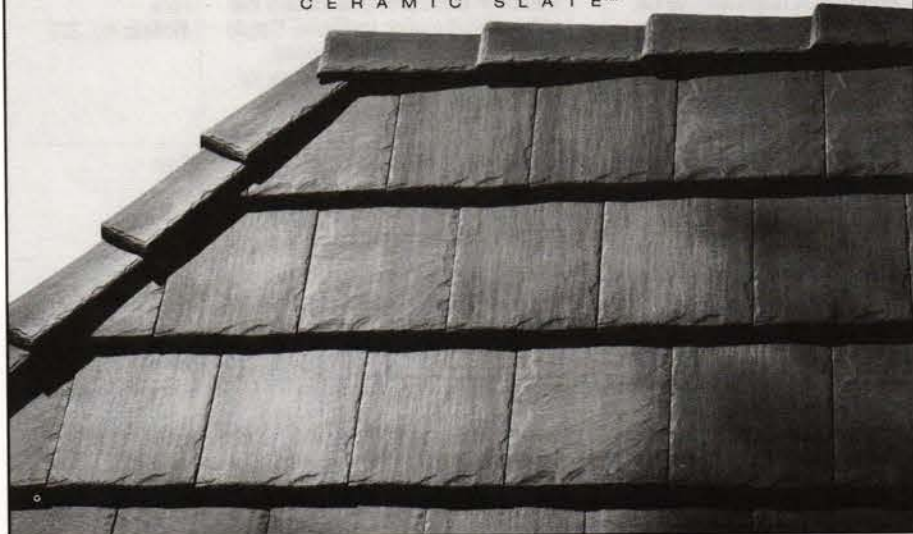
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WRITE IN NO. 894

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WRITE IN NO. 721



TRADITIONAL BUILDING's Roofing & SPECIALTIES SourceList

CSI# 07300

COMPILED BY CLEM LABINE

COMPANY	SPECIALTY	Literature
Adornments For Architecture 309 Hollow Rd., Dept. TB Staatsburg, NY 12580 914-889-8390	Custom fabricator creates finials, capitals, weathervanes, cresting, lightning rods, and other architectural ornaments in cast aluminum, bronze, FRP, and sheet metal. Design collaboration, pattern, and model making.	Free <i>Write in No. 749</i>
Air Vent, Inc. 4801 N. Prospect Rd., Dept. TB Peoria Heights, IL 61614 800-AIR-VENT	ShingleVent II-9 is designed especially for cedar shake and cedar shingle applications. The high-density shingle-over ridge vent is nearly invisible at 7/8-in. height, and comes with a 30-year limited warranty.	Free
Alcoa Building Products P.O. Box 3900, Dept. TB Peoria, IL 61612 800-962-6973	Aluminum roofing systems that replicate the look of hand-hewn cedar shakes, wood shingles, tile, and slate without the deterioration and maintenance issues of those materials. Fire resistant, energy efficient, and light weight; different colors available.	Free
Armor Plus International Co. 1222 18th St., Dept. TB Racine, WI 53403 800-654-4203	Poured-in-place urethane rubbers that solve difficult roofing problems. Simple to apply; no roofing skills needed. Suitable for built-in gutters, decks, tin roofs, ledges, domes, and existing roofs. White, tan, gray, black.	Free <i>Write in No. 229</i>
Bear Creek Lumber P.O. Box 669, Dept. TB Winthrop, WA 98862 509-997-3110	This mill's line of Western red cedar shakes and shingles includes tapersawn and Victorian fancy cuts. Nationwide delivery.	Free
Berridge Manufacturing Company 1720 Maury St., Dept. TB Houston, TX 77026 800-231-8127, 713-233-4971	Offers complete line of Kynar 500 prefinished steel standing-seam panels, simulated S-Tile and Spanish barrel tile, rustic & Bermuda shake shingles, Victorian and classic steel shingles for new and restoration roofing.	Free <i>Write in No. 783</i>
Birdmaster Control Systems 32 Cummings Park, Dept. TB Woburn, MA 01801 617-932-6462	Designs and installs birdproofing systems to blend in with existing features of historic buildings. Extensive landmark experience.	Free
Boston Valley Terra Cotta 6860 So. Abbott Rd., Dept. TB Orchard Park, NY 14127 716-649-7490	Custom manufacturer of architectural terra cotta and roof tile. Extensive experience on historic buildings.	Free
Brumder Ornamental Iron 40128 Industrial Pk. N., Dept. TB Georgetown, TX 78626 512-869-2830	Hot-forged, hand-wrought ornamental metalwork in classic and contemporary styles, including finials, cresting, railings, etc. Design services include presentation, CAD, sample, and model-making.	Free <i>Write in No. 186</i>
C&H Roofing P.O. Box 2105, Dept. TB Lake City, FL 32056 800-327-8115	Specialty roofing contractor. With 18 years experience, crews from this firm travel nationally and internationally to work on historic roofs of thatch, slate, tile, steam-bent cedar. Also: Sheetmetal, ornamental cornices, and custom copper work.	Free <i>Write in No. 724 (stampings) Write in No. 743 (thatch)</i>
Cedar Plus P.O. Box 515, Dept. TB Sumas, WA 98295 800-663-8707	Cedar shakes and shingles are available with Cedar Plus fire retardant and Cedar Plus CCA preservative treatments. Warranties of 20, 25, 30, and 50 years available.	Free
Cedar Shake & Shingle Bureau 515 116th Ave. NE, Ste. 275 Bellevue, WA 98004 206-453-1323	Provides literature, design, application, and installation data for cedar roofing. Includes information on pressure-impregnation for preservative and fire-retardant-treated material. Information on 20/25 year limited warranty.	Free <i>Write in No. 786</i>
Celadon Ceramic Slate P.O. Box 309, Dept. TB New Lexington, OH 43764 800-CEL-SLATE, 614-342-1995	Celadon Ceramic Slate is a fired-clay interlocking ceramic roofing product formed to look like a thick slate. It comes in 5 natural slate colors, and is backed by a 60-year limited warranty.	Free <i>Write in No. 894</i>
CertainTeed Corp. 750 E. Swedesford Rd., Dept. TB Valley Forge, PA 19482 800-782-8777	"Grand Manor Shingle" and "Carriage House Shingle" are extra-thick asphalt shingles that recreate look of handcrafted slate roofs. Can be used separately, or combined for custom roof patterns. Limited lifetime warranty.	Free <i>Write in No. 754</i>
Chicago Metallic 4849 S. Austin Ave., Dept. TB Chicago, IL 60638 708-563-4600	"Shingle Shield" is a narrow strip of zinc installed near the ridge. It has embossed pebble texture and distinctive ridges. It protects roof shingles from damage caused by mold and fungus.	Free <i>Write in No. 609</i>
Chicago Metallic Corp. 6750 Santa Barbara Ct., Dept. TB Baltimore, MD 21227 410-796-8220	"Shingle Shield" is made from a narrow strip of zinc with an embossed pebble texture and distinctive ridges. Installed close to the ridge, it protects roof shingles from damage caused by mold and fungus.	Free <i>Write in No. 609</i>
Classic Products P.O. Box 701, Dept. TB Piqua, OH 45356 800-543-8938	Manufactures several lines of metal shingles fabricated to look like wood shakes, slate, and Victorian-era shingles.	Free

COMPANY	SPECIALTY	Literature
Commercial Gutter Systems 5621 East 'D.E.' Ave., Dept. TB Kalamazoo, MI 49004 616-382-2700	Authentic 6-in. seamless half-round gutter in both copper and heavy aluminum. Gutter is compatible with unique hidden nut-and-bolt adjustable hanger system. Wide range of rainwater products and fittings.	Free <i>Write in No. 128</i>
Conklin Metal Industries PO Box 1858, Dept. TB Atlanta, GA 30301 404-688-4510	Manufacturer of metal roofing shingles, including one pattern typical of late 19th-century homes. Also supplies galvanized roofing sheets, gutters, and leaders.	Free <i>Write in No. 789</i>
Contemporary Copper PO Box 69, Dept. TB Greenfield, MA 01302 413-773-9242	Designer/craftsman studio with 20 years of experience. Custom-fabricates architectural embellishments from sheet copper.	Free
Copper Sales, Inc. 1405 N. Highway 169, Dept. TB Minneapolis, MN 55441 800-426-7737, 612-545-1604	National metal service center specializes in roofing systems, flush panels, mansards, column covers, and custom fabrication. Metals include copper, painted steel, stainless, and painted and anodized aluminum.	Free
Cor-A-Vent P.O. Box 428, Dept. TB Mishawaka, IN 46546 219-255-1910	Manufactures a roof-ridge ventilation system that works with shingle, tile, metal, or cedar shake roofs.	Free <i>Write in No. 527</i>
Cumberland Woodcraft Co., Inc. P.O. Drawer 609, Dept. TB Carlisle, PA 17013 717-243-0063	Complete line of Victorian and other period millwork, including fancy-cut wood shingles. Also: Carvings, turnings, brackets, fretwork, gazebos, and more. Custom work available.	Free <i>Write in No. 131</i>
Ditmars Roofing 24-69 46th St., Dept. TB Astoria, NY 11103 718-278-3277	Major roofing contractor experienced with traditional roofs, domes, steeples, including slate and tile. Custom copper work, drainage systems, and complete exterior waterproofing and restoration.	Free <i>Write in No. 825</i>
Durable Slate Co. 1050 North 4th St., Dept. TB Columbus, OH 43201 800-666-7445, 614-299-5522	Installs slate and metal roofing in the Midwest and Eastern regions. Distributes and installs natural slate; over 100,000 pieces of salvaged slate in stock. Specializes in complete slate restoration and new slate roofs.	Free <i>Write in No. 372</i>
Ecopic 725 S. Adams Rd., Ste. 270 Birmingham, MI 48009 810-647-0505	Bird deterrent system uses stainless steel rods arranged in a triangular configuration and stamped into a clear polystyrene base. Fastens to buildings with silicone adhesive.	Free
Eiger Building Products 4770 Biscayne Blvd., Suite 1020 Miami, FL 33137 305-573-7778	EigerShake panels, made of GE's Noryl resin, give appearance of hand-hewn heavy cedar shakes while preserving first-growth cedar trees. Available in 3 natural wood colors; lightweight and virtually maintenance-free.	Free <i>Write in No. 827</i>
Empire Scroll Flashing P.O. Box 1066, Dept. TB Syracuse, NY 13201 315-446-6634	Empire Scroll Flashing is a superior metal drip edge for use on sloped roofs with minimum pitch, and historic or new roofs with convex decorative moldings.	Free <i>Write in No. 857</i>
Evergreen Slate Company P.O. Box 248, Dept. TB Granville, NY 12832 518-642-2530	Manufacturers of Natural Vermont roofing slate in wide range of sizes, colors, and weights. Can match any slate roof ever applied from a photo. Can give good blending or contrasting effects for all new construction.	Free <i>Write in No. 623</i>
Follansbee Steel P.O. Box 610, Dept. TB Follansbee, WV 26037 800-624-6906, 304-527-1260	The leading producer for over 100 years of Terne Metal, the traditional 'tin' roofing metal, and Terne Coated Stainless (TCS) roofing materials and flashing products.	Free <i>Write in No. 867</i>
Gerard Roofing Technologies 955 Columbia St., Dept. TB Brea, CA 92621 800-841-3213	Manufactures stone-coated steel panels in two profiles: Mediterranean tile and hand-split wood shake; available in 10 solid and 5 flashed colors. Lightweight (140 lb./sq.). New construction or re-roof over wood or composition shingles. Limited lifetime, weatherproof warranty. Additional hail and wind warranties.	Free
Gladding McBean P.O. Box 97, Dept. TB Lincoln, CA 95648 800-776-1133, 916-645-3341	Produces a complete line of clay roof tiles for restoration and new work; wide array of patterns, finishes, and colors. Custom manufacturing of all tiles and patterns.	Free <i>Write in No. 866</i>
Glenco Construction Box 189, Dept. TB Athens, NY 12015 518-945-3880	This preservation contractor does general exterior restoration, including historic roofs, built-in gutters, etc.	Free
Greenstone Slate 5720 Upper Rd., Dept. TB Poultney, VT 05764 802-287-4333	True Vermont roofing slate in wide range of sizes, colors, and weights. Experienced in matching slates for roof restoration, additions, and new construction. Graduated roofs, blending, contrasting, all effects.	Free <i>Write in No. 377</i>
Hardie Building Products 10901 Elm Ave., Dept. TB Fontana, CA 92337 909-356-6300	Fiber cement roofing shingles with wood shake texture. Can be installed to Class 'A' fire rating; six colors. 50 year limited product warranty.	Free

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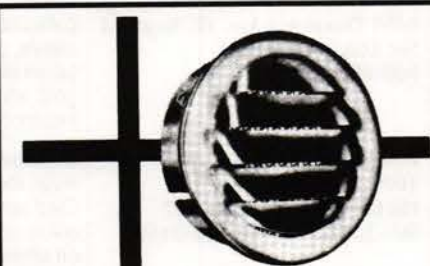
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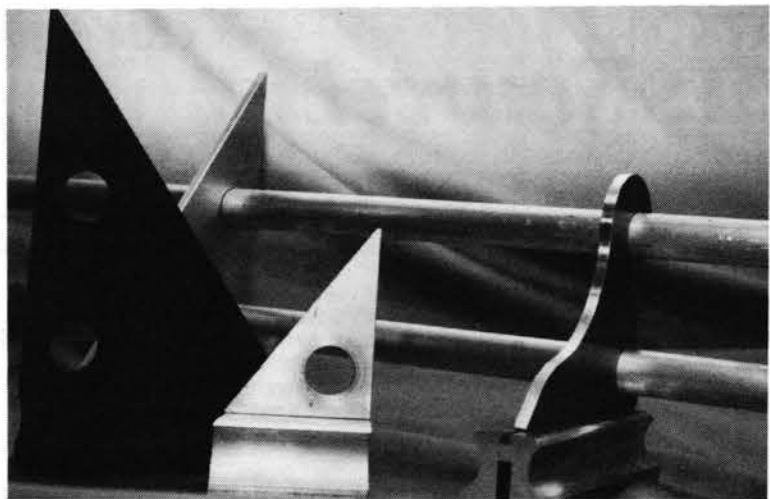
TRADITIONAL BUILDING's Roofing & Specialties SourceList

CSI# 07300

COMPILED BY CLEM LABINE

COMPANY	SPECIALTY	Literature
Hassler Steeplejack Co. 1619 W. Thompson, Dept. TB Philadelphia, PA 19121 215-236-1280	Full-service steeplejack: steeple, dome, and tower inspections and repairs, brick and stone pointing. Installs, repairs, gold-leaves high crosses and finials, bird-proofing, sheet-metal repairs.	Free
Heather & Little, Ltd. 36 Wagstaff Dr., Dept. TB Toronto, Ont. M4L 2R8 800-450-0659, 416-465-5491	Since 1925, specializing in all manner of sheet metal roofs, ornaments, restoration and reproduction. Copper & lead-coated copper roofing projects include Canadian Parliament Buildings, Supreme Court of Canada, and similar major government and commercial buildings.	Free Write in No. 247
Hilltop Slate Co. Route 22A, Dept. TB Middle Granville, NY 12849 518-642-2270	New York-Vermont natural roofing slate and flagstones in all colors and sizes; semi-weathering and unfading shades. Specialists in color matching and roofing slate for restoration.	Free Write in No. 995
Historical Arts & Casting 5580 W. Bagley Pk. Rd., Dept. TB West Jordan, UT 84088 800-225-1414, 801-280-2400	Expertly crafted custom lighting and metal ornament, including cornices, railings, cresting, fences, planters, finials, street furnishings, and more; in bronze, aluminum, or cast iron. Restoration and custom work a specialty.	Free Write in No. 121
JAX Chemical Company 78-11 267th Street, Dept. TB Floral Park, NY 11004 718-347-0057	Manufactures metal finishing solutions — cleaners, darkeners, and coloring solutions — including a copper green patina.	Free
Johnson Atelier 60 Ward Avenue Ext., Dept. TB Mercerville, NJ 08619 609-890-7777	Custom architectural casting, including finials and cresting. Modeling: Full-service artistic staff, complete moldmaking, casting, fabrication, installation, and restoration services. Castings in bronze, ductile iron, aluminum.	Free Write in No. 733
L.J. Fasteners P.O. Box 555, Dept. TB Oradell, NJ 07649 201-261-2828	Specialists in corrosion-resistant fasteners for roofing and other applications in stainless steel, brass, and copper. Also: snow guards.	Free Write in No. 519
Landmark Rigging, Inc. 63 Main Street, Dept. TB Northampton, MA 01060 413-586-4121	Full range of steeplejack and rigging services for repair of steep roofs, cupolas, steeples, etc. Extensive experience on historic buildings.	Free
Lewis Industries 1129 Hwy. 101 N., Dept. TB Crescent City, CA 95531 707-464-5844	Mills all types of redwood gutters, as well as custom moldings.	Free
Liberty Cedar 535 Liberty Lane, Dept. TB West Kingston, RI 02892 401-789-6626	Western red cedar tapered shakes, handsplit and resawn shakes, tapered split shingles, and straight split shakes. Historic projects a specialty.	Free Write in No. 653
Ludowici Rooftile, Inc. P.O. Box 69, Dept. TB New Lexington, OH 43764 800-945-TILE, 614-342-1995	Manufactures complete line of clay roof tiles for restoration and new work; wide array of patterns, finishes, and colors. Custom manufacturing of all tiles and patterns. 75-year limited warranty.	Free Write in No. 276
Mad River Woodworks P.O. Box 1067, Dept. TB Blue Lake, CA 95525 707-668-5671	Full line of Victorian millwork and turned products, including fancy-butt shingles, gingerbread, baluster, finials, corbels, moldings, and screen doors. Products primarily manufactured in redwood.	Free Write in No. 35
Merchant & Evans P.O. Box 1680, Dept. TB Burlington, NJ 08016 609-387-3033	Wide range of engineered standing-seam and other types of metal roofing systems. Fabricates aluminum cornices (0.032 - 0.080 in.) in a variety of finishes; copper also available.	Free
Metal Building Components (MBCI) P.O. Box 38217, Dept. TB Houston, TX 77238 713-445-8555	Fabricators of metal roofing panel systems for residential projects. Available in variety of profiles, widths, gauges, paint systems, and colors.	Free
Met-Tile, Inc. P.O. Box 4268, Dept. TB Ontario, CA 91761 800-899-0311	Pressed-metal roofing panels simulate look of Spanish tile roofs. Light in weight, panels also provide good resistance to wind, fire, and weather.	Free
Metal Sales Manufacturing Corp. 7800 State Rd. 60, Dept. TB Sellersburg, IN 47172 812-246-1935	Manufactures a wide range of traditional metal roofing products, including metal tiles, and Pro-Loc architectural metal roofing. All accessories and trims.	Free
Midget Louver Company 800 Main St., Dept. TB Norwalk, CT 06851 203-866-2342	Small vents for soffit, roof, and attic areas. Regular louver has deflectors against weather and an insect screen. LD model is a screen vent for areas where there is no danger of wind-blown rain.	Free Write in No. 270
Midland Engineering Co. P.O. Box 1019, Dept. TB South Bend, IN 46637 219-272-0200	Major contractor with extensive experience in fabricating and installing exterior cornice, slate and tile roofing, domes, steeples, and other exterior work on large historic properties. Works nationwide.	Free Write in No. 742

COMPANY	SPECIALTY	Literature
Monier 750 The City Dr. S., Ste. 200 Orange, CA 92668 800-571-TILE, 714-750-5366	Concrete roof tiles manufactured to enhance any architectural style or color range. New Normandy Slate available in 6 solid colors and 6 accent colors, which can be blended for rich effects. Tiles pass stringent freeze/thaw test.	Free Write in No. 884
Mullane Snow Guards 17 Mason St., Dept. TB Hudson, MA 01749 508-568-0597	Cast bronze snow guards in an 1899 eagle design and standard castings for slate, wood, shingle, copper, and other metal roofs. Slate guards easily retrofit to existing roofs with no removal of slate.	Free Write in No. 56
New England Slate Co. Burr Pond Rd., Dept. TB Sudbury, VT 05733 802-247-8809	New and salvaged roofing slates in full color range; color matching for restorations, additions, and new construction. Custom cutting service for special shapes.	Free Write in No. 7
Newfoundland Slate, Inc. 8800 Sheppard Ave. E., Dept. TB Scarborough, Ont. M1B 5R4 416-281-8181	Supplies ASTM S1 natural roofing slate. Colors include Trinity Heather, Plum Red, Variegated, Green, and Black. Available in any size, texture, or thickness; distributed in over 10 countries.	Free Write in No. 831
Newport Fastener 1300 Gene Autry Way, Dept. TB Anaheim, CA 92805 800-645-7811	Roof fastener specialists for 31 years. Manufactures architectural metals for tile roofs, including Tyle-Tye and Tile-Tie fastening systems, hurricane clips, metal birdproofing, roof venting.	Free Write in No. 391
NIKO Contracting Co. 3434 Parkview Ave., Dept. TB Pittsburgh, PA 15213 412-687-1517	Nationwide roofing and sheet metal contractor has extensive experience on historic restoration projects: Custom architectural sheet metal work, artificial patination of copper, standing-seam, and other types of historic roofing.	Free Write in No. 796 (roofing) Write in No. 830 (sheet metal)
Nixalite of America, Inc. 1025 16th Ave., Dept. TB East Moline, IL 61244 309-755-8771	Nixalite strips present a simple barrier of needle-sharp stainless steel points that do not harm birds, but prevent their landing or roosting on the surface protected. Used worldwide with humane society acceptance.	Free Write in No. 37
North Jersey Restoration Services P.O. Box 1114, Dept. TB Fair Lawn, NJ 07410 201-345-2020	Supplies products for exterior wood restoration and preservation, including preservatives for wood shingles. Birdproofing systems.	Free
Northern Roof Tile Sales Co. P.O. Box 275, Dept. TB Millgrove, Ont. L0R 1V0 905-627-4035	Single source for clay roof tiles and all related accessories. Supplies tile from the world's leading manufacturers in all shapes, sizes, profiles, and colors. Ornamental ridge and finials a specialty. Custom matching.	Free Write in No. 404
Benjamin Obdyke, Inc. John Fitch Industrial Pk., Dept. TB Warminster, PA 18974 800-346-7655, 215-672-7200	'Cedar Breather' allows continuous air space between roof deck and wood shingles; 'Roll Vent' attic ventilation system; wide range of rainwater carrying products and accessories, including half-round gutters.	Free
Passaic Metal Products 5 Central Ave., Dept. TB Clifton, NJ 07015 201-546-9000	Distributor and supplier of all architectural sheet metal and other metalwork, including roofing, gutters, and related materials. Specializes in traditional and historic roofing products.	Free
Patina Finishes & Copper Coatings 8455 Commerce Ave. #B, Dept. TB San Diego, CA 92121 800-882-7004	Manufacturer of surface coatings and patina solutions which can be applied to metals, drywall, wood, etc. Water-based metal coatings available in silver, gold, and bronze; 4 patina colors. For interior or exterior use.	Free Write in No. 315
Petersen Aluminum Corp. 1005 Tonne Rd., Dept. TB Elk Grove Village, IL 60007 800-323-1960, 708-228-7150	Manufactures broad line of architectural metal roofing panels and trim. 'Pac-Clad' panels available in 24 Kynar 500 colors on steel and 11 Kynar 500 colors on aluminum.	Free
Preservation Products 221 Brooke St., Dept. TB Media, PA 19063 800-553-0523	Supplies Acry-Max coating systems for preservation and restoration of tin roofs. System creates a seamless membrane that waterproofs and improves appearance. Can also be used on substrates like asphalt, wood, masonry.	Free Write in No. 818
RTS Company 1805 Newton Ave, Dept. TB San Diego, CA 92113 619-696-0102	Metal roofing in the form of tile, shingles, and panels. Available in steel or aluminum.	Free
Renaissance Roofing P.O. Box 5024, Dept. TB Rockford, IL 61125 815-874-5695	Over 1,500,000 sq.ft. of historical roofing materials available, including clay tile, concrete tile, slate, and mineral fiber tile. New materials and complete consultation services available. Nationwide installation service.	Free Write in No. 371
Rheinzink Canada, Ltd. 4560 Dawson St., Dept. TB Burnaby, BC V5C 4C1 604-291-8171	Supplies high-grade zinc alloyed with 1% copper and 1% titanium for all roofing applications, wall cladding, and interiors. Used in Europe since the mid-18th c. Low maintenance with potential life span of 100 yrs.	Free



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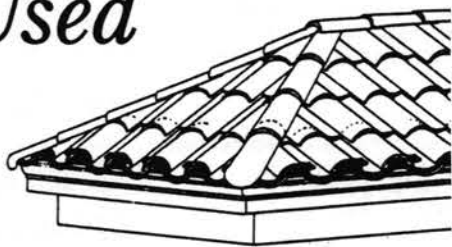
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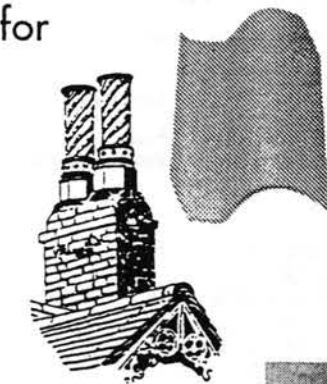
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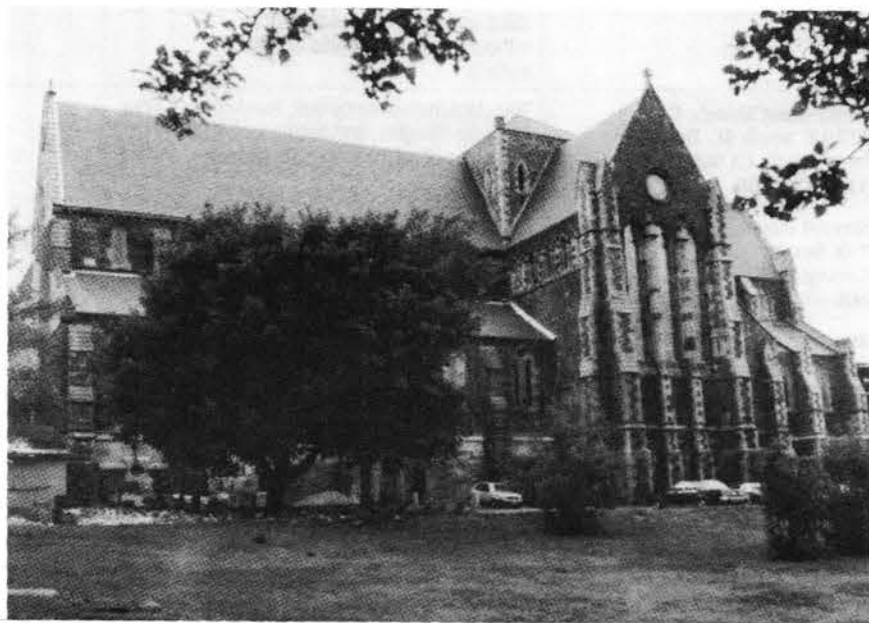
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TRADITIONAL BUILDING's Roofing & SPECIALTIES SourceList

CSI# 07300

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COMPANY	SPECIALTY	Literature
Richmond Precast Concrete Prods. P.O. Box 37099, Dept. TB Richmond, VA 23234 804-275-8262	Manufactures flat concrete shingle tile in various colors and textures. Tiles can be customized to resemble wood, slate and other materials.	Free <i>Write in No. 634</i>
Rising & Nelson Slate Co. P.O. Box 98, Dept. TB West Pawlet, VT 05775 800-348-8820, 802-645-0150	Quarriers and producers of Vermont colored slate, including all types of roofing slate. Can provide replacement slate to match old roofs. Colors include red, unfading purple, variegated purple, unfading green, and many others.	Free
Robbins Lightning, Inc. P.O. Box 440, Dept. TB Maryville, MO 64468 816-582-3156	Custom designer and manufacturer of lightning protection systems. Experienced on large historic buildings. Complete line of cast weathervanes also available.	Free <i>Write in No. 745</i>
Robinson Iron P.O. Box 1119, Dept. TB Alexander City, AL 35010 205-329-8486	Major cast-iron restoration and supply firm that has built or recreated cresting and finials for historic sites, as well as new construction. Extensive collection of historic patterns for casting, as well as reference for custom work.	Free <i>Write in No. 324</i>
Rogers Roofing Co., Inc. 251-1/2 Grove Ave., Dept. TB Verona, NJ 07044 201-239-5001	Major roofing contractor experienced with traditional roofs, domes, steeples, including slate and tile. Custom copper work, wood roofs, drainage systems, and complete exterior restoration. On-site metal shop.	Free <i>Write in No. 746</i>
Roof Accessories Co. 1 Commonwealth Blvd., Dept. TB Millis, MA 02054 800-447-2141	Manufactures a range of drain systems, drain guards, strainers, and related accessories for flat roof drainage.	Free
Shamokin Trail Shingle Co. PO Box 122, Dept. TB Luthersburg, PA 15848 814-583-5342	Custom quarter-sawn and handsplit northern white oak shingles; custom sizing; fancy butts. Hand-rived and trimmed, double-tapered, trimmed shakes; hand-rived horizontal roof clapboard.	Free <i>Write in No. 832</i>
Sky Lodge Farm/Colonial Clapboards 46 Wendell Rd., Dept. TB Shutesbury, MA 01072 413-259-1271	Full-sized 19-in. Eastern white cedar shingles with butts of 1/2 in., 5/8 in., and 3/4 in. Also: Authentic radially sawn Early American clapboards with greater dimensional stability than conventional clapboards.	Free <i>Write in No. 437</i>
Slate International 15011 Marlboro Pike, Dept. TB Upper Marlboro, MD 20772 800-343-9785, 301-952-0120	Supplier of ASTM Grade S1 roofing slate, both domestic and imported, in all sizes and colors. Free architectural service; special shapes available. Also, ask about "FastTrack for Slate," an improved slate-fastening system.	Free <i>Write in No. 934</i>
Snow Management Systems P.O. Box 1505, Dept. TB Stowe, VT 05672 802-888-7200	Complete range of snowguards to complement various roof systems and architectural styles, from historical to contemporary. Sentry snowguards stand up to toughest of conditions without puncturing seams or roof surface.	Free <i>Write in No. 839</i>
South Coast Shingle Co. 2220 E. South St., Dept. TB Long Beach, CA 90805 310-634-7100	Manufacturers of fancy-butt, hand-cut #1 cedar shingles, and distributors of all types of roofing materials and related items.	Free
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Stortz & Son, Inc. 210 Vine St., Dept. TB Philadelphia, PA 19106 215-627-3855	Manufacturer of slater's tools and sheet metal hand tools for over 140 years.	Free
Superior Shakes of Texas P.O. Box 405, Dept. TB Willis, TX 77378 800-635-0573, 409-856-7469	Largest producer of authentic Southern yellow pine tapered shakes, CCA-treated for long life.	Free <i>Write in No. 864</i>
Supradur Mfg. Corp. P.O. Box 908, Dept. TB Rye, NY 10580 800-223-1948, 914-967-8230	Seven different styles of fiber-cement slates, shakes, and shingles, including an authentic slate replica with integral color, a painted European slate, and a wood-grained shake. Class A fire rating. Also: Genuine clay tiles.	Free <i>Write in No. 927</i>
Sur-Fin Chemicals 1530 Spence St., Dept. TB Los Angeles, CA 90023 213-262-8108	Wide range of finishing patinas and chemicals for the coloring of metals, including copper, brass, bronze, steel, and iron. Selection of 24 colors and finishes, including the classic green verde for patinating copper.	Free <i>Write in No. 562</i>
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Triple-S Chemical 1413 Mirasol St., Dept. TB Los Angeles, CA 90023 213-261-7301	Manufacturer of patinas and antiquing solutions for the coloring of metals, such as copper, brass, bronze, steel, and iron. Selection of colors includes the popular green verde for patinating copper, brass, and bronze.	Free <i>Write in No. 704</i>
Tropic Top 2028-3 Eastbourne Way, Dept. TB Orlando, FL 32812 407-273-0069	Manufactures and sells lightweight metal 'thatch' shingles for buildings and structures that need to have a tropical look in any climate. Ideal for resorts, restaurants, hotels, parks, etc.	Free <i>Write in No. 387</i>
Tuff-Kote Co. 210 N. Seminary Ave., Dept. TB Woodstock, IL 60098 800-827-2056, 815-338-2006	Manufactures a patented waterproof and weatherproof patching and coating system that can preserve and protect most traditional roofing systems.	Free <i>Write in No. 101</i>
Vande Hey-Raleigh Mfg. 1565 Bohm Dr., Dept. TB Little Chute, WI 54140 800-236-8453 414-766-1181	Cold-climate tile experts: Line of extruded concrete roofing tile offered in 8 styles and 20 standard colors. Custom colors and surfaces for restoration and new construction. Also: Recycled slate, concrete, and clay tiles.	Free <i>Write in No. 284</i>
Vermont Slate & Copper Services P.O. Box 430, Dept. TB Stowe, VT 05672 802-893-7703	Traditional roofing installation and consultation: Slate, metal, and clay tile roofs, sheet metal. Experienced on historical projects. Also manufactures and installs snowguards for all roof types.	Free <i>Write in No. 839</i>
Vermont Structural Slate P.O. Box 98, Dept. TB Fair Haven, VT 05743 802-265-4933	Quarrier and fabricator of color-integral Vermont slate shingles; not a broker. Standard slates produced in a variety of colors. Standard, random, and graduated textural thicknesses and lengths. Custom sizes and shapes offered.	Free <i>Write in No. 76</i>
Vulcan Supply P.O. Box 100, Dept. TB Westford, VT 05494 802-878-4103	Custom fabricator of finials, weathervanes, cornices, cupolas, and architectural details in copper and other sheetmetal. Consultants for slate, tile, and copper roofing. Video on slate roof installation and repair.	Free <i>Write in No. 721</i>
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This comprehensive video tape, outlined on page 53 in the May/June 1993 issue of Traditional Building, is now available from Vulcan Supply Corp. for \$35.00 (shipping included).

The best video tape of its kind is a "must have" item for architects and roofers interested in expanding their services, or homeowners with slate roofs in need of maintenance.

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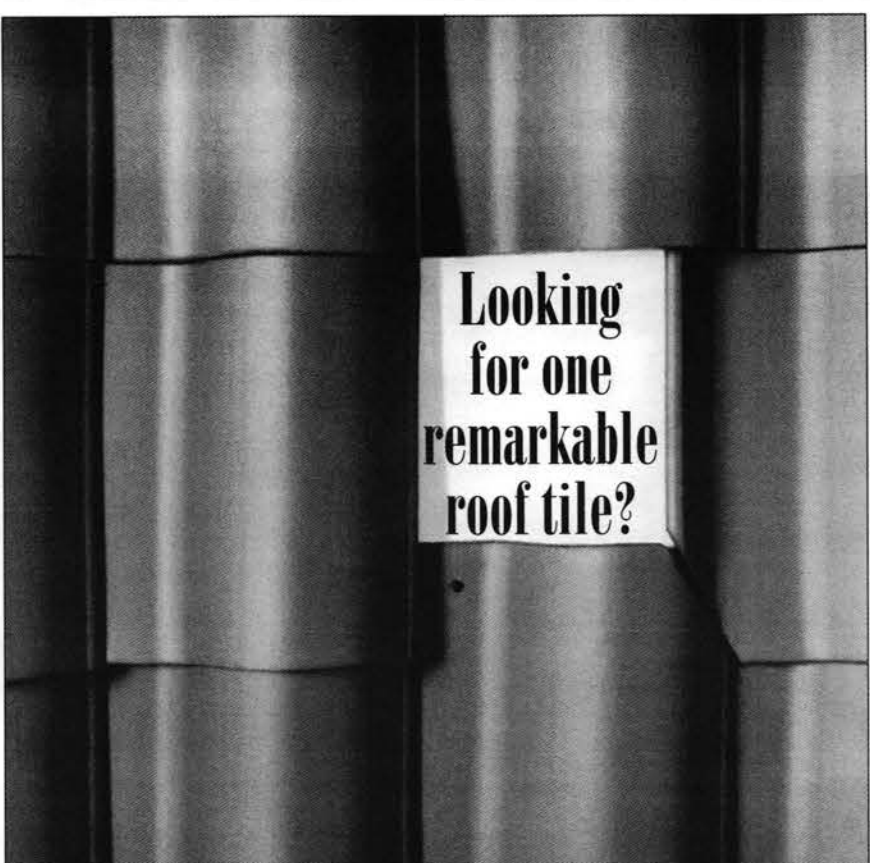
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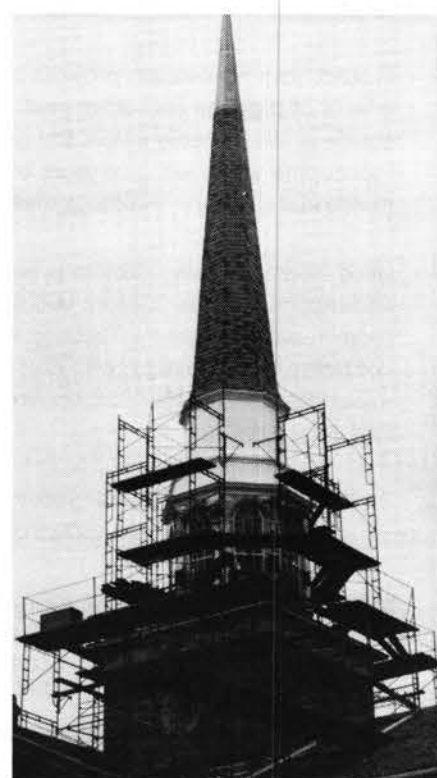
For more information on these companies, consult the SourceList on pages 38-42.



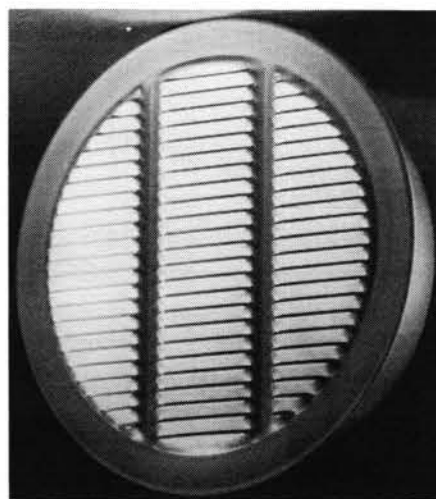
NIKO CONTRACTING CO. replicated the original copper roof — and associated architectural copper work — on the Cooper-Hewitt Museum in New York City. The firm also had to replace all the wood decking and repair concrete decking, some structural steel, drain lines, and some interior plaster. *Write in No. 830*



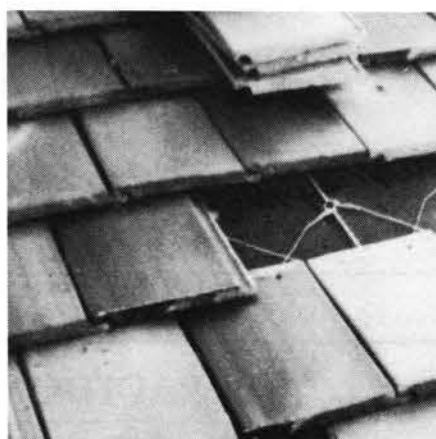
Custom-cast aluminum roof cresting and finials — with a shop-applied finish — for a major new San Francisco office building was created by the artisans at HISTORICAL ARTS & CASTING. *Write in No. 121*



ROGERS ROOFING is a major contractor that works with custom copper, slate, tile, standing-seam metal, and all traditional roof types. Extensive experience on landmark projects like this Christian Science church steeple in Montclair, N.J. *Write in No. 746*



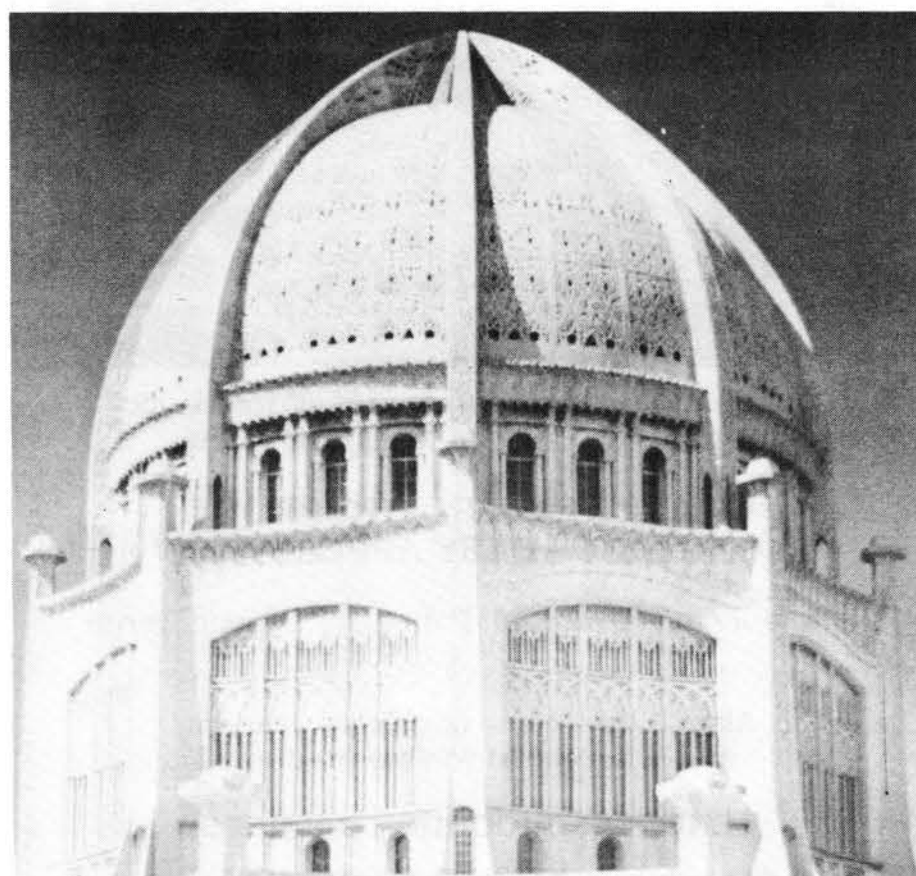
MIDGET LOUVER supplies a wide range of small, easily concealed, venting devices for ventilating soffits and related attic and roof spaces. *Write in No. 270*



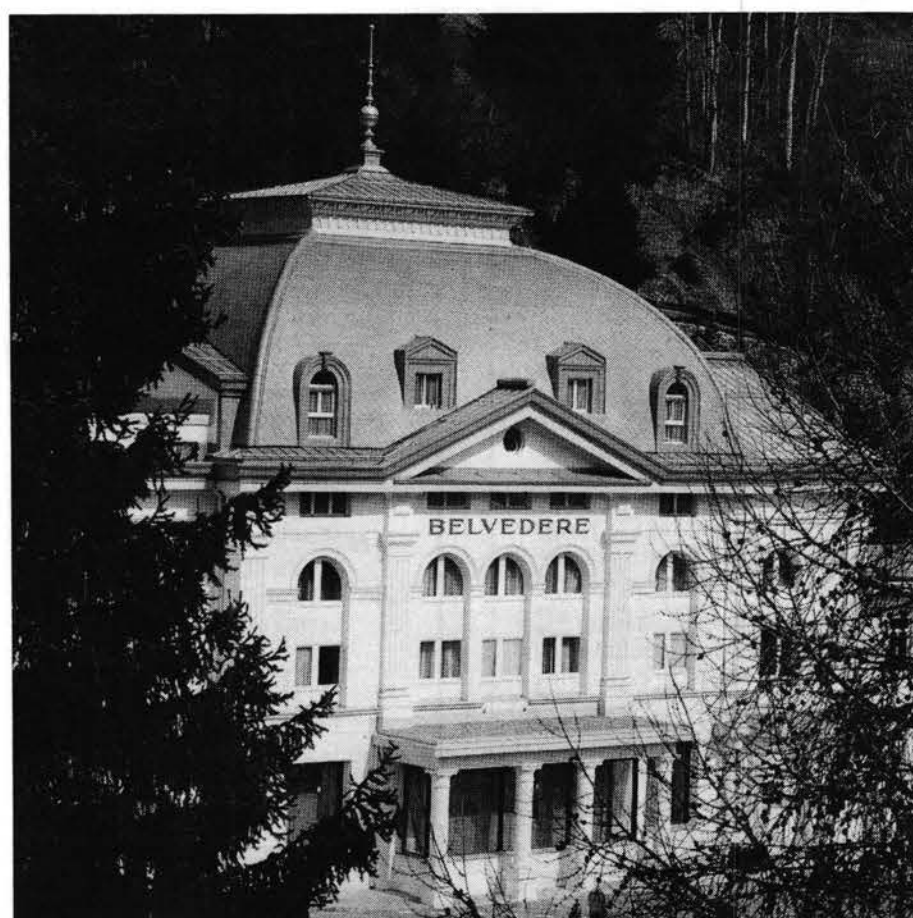
"Tyle Tye" fastening system from NEWPORT FASTENER secures roof tiles to all types of decks, including concrete, metal, and over insulation. It's appropriate for high-wind and seismic areas. *Write in No. 391*



Shingle Shield from CHICAGO METALLIC is a zinc strip inserted under ridge shingles that inhibits the growth of moss, mold, and mildew on the entire roof. *Write in No. 878*

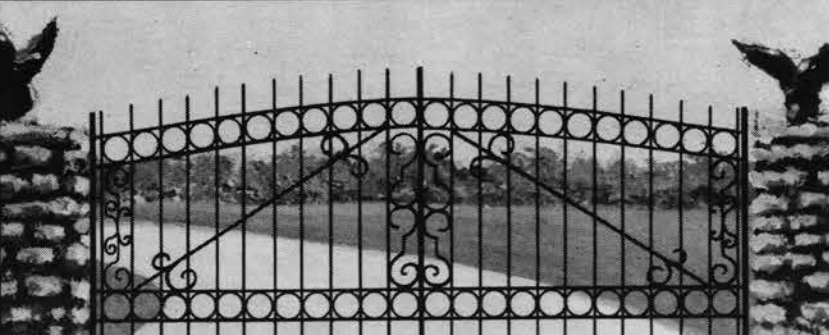


The NIXALITE system of bird-repelling stainless-steel needles is frequently installed as part of the roofing contract. Here, the Nixalite system protects the ornate dome at the Baha'i National Center, Wilmette, Ill. *Write in. No. 37*



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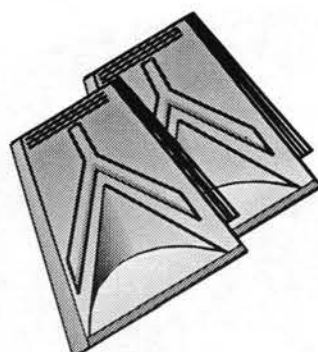
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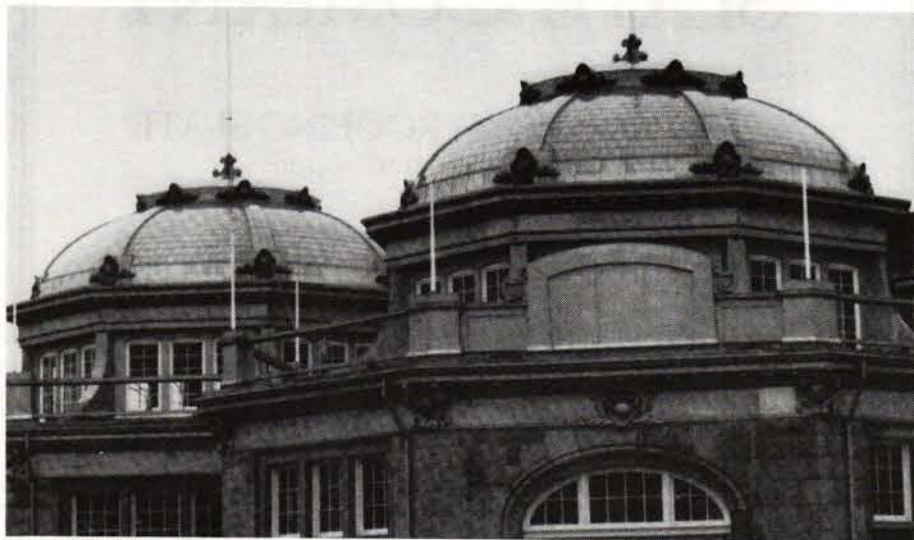
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WRITE IN NO. 324

ROOFING & SPECIALTIES PORTFOLIO

For more information on these companies, consult the SourceList on pages 38-42.



Specialists in all manner of sheet metal roofs and architectural sheetmetal work, craftsmen from HEATHER & LITTLE reproduced and installed galvanized metal shingles, cartouches, cornices, dentils, and ornate flagpole bases for the Music Building at the Canadian National Exhibition in Toronto. *Write in No. 247*



C&H ROOFING first won national attention for its steam-bent cedar shingle roofs that resemble thatch. The firm now works internationally and installs virtually any traditional roof — from natural thatch to standing-seam copper. *Write in No. 743*



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Concrete roof tiles, manufactured to closely resemble the colors and textures of natural slate, were used to re-roof this historic church. The Early American Slate tiles were produced by VANDE HEY RALEIGH. *Write in No. 284*



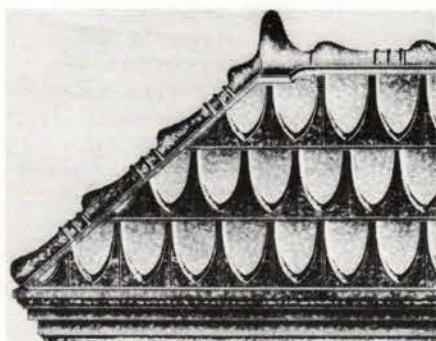
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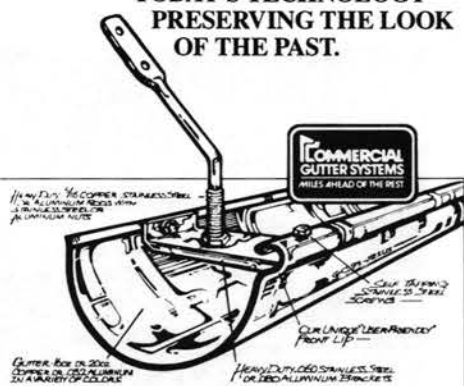
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For more information on these companies, consult the SourceList on pages 38-42.



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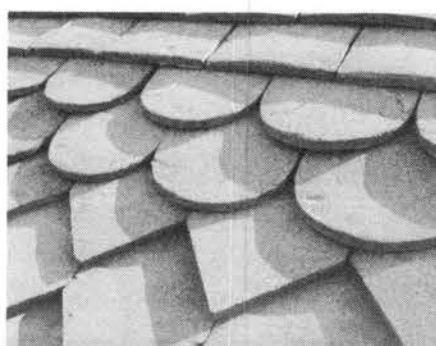
The batten-seam copper roof on the 28-ft.-dia. Bergen County, N.J., courthouse was fabricated and installed by VULCAN SUPPLY. The 22 curved battens tapered both in width and thickness, making the job especially challenging. Write in No. 721



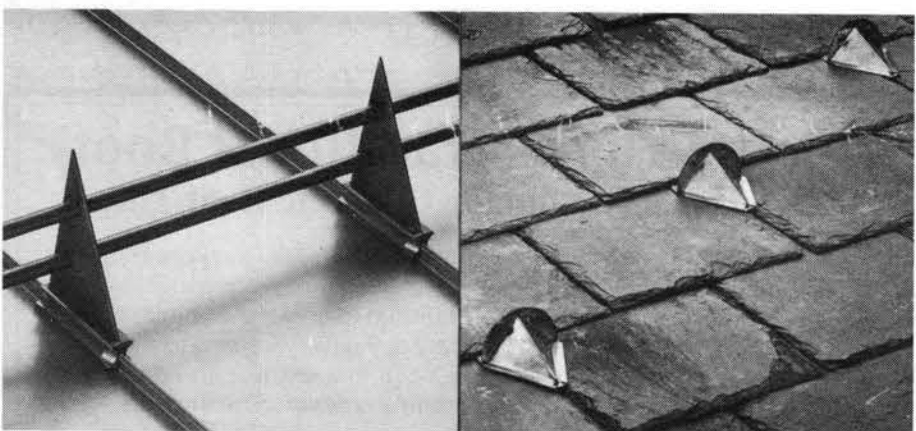
VERMONT STRUCTURAL SLATE is a long-time quarrier and fabricator of natural Vermont slate for both new construction and restoration, such as this custom graduated-slate roof. Write in No. 76



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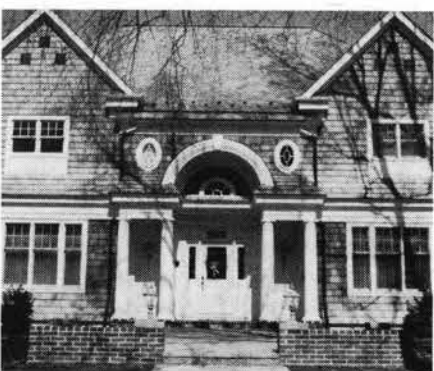
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The tile and slate specialists at TILE ROOFS, INC., are re-roofing this handsome Prairie Style residence. The firm maintains what it says is the largest stock of new and used tile in the U.S. Write in No. 457



SupraSlate fiber-cement shingles from SUPRADUR create the visual appearance of a natural slate roof, yet are lightweight, easy to install, and carry a Class A Fire Rating. Write in No. 927



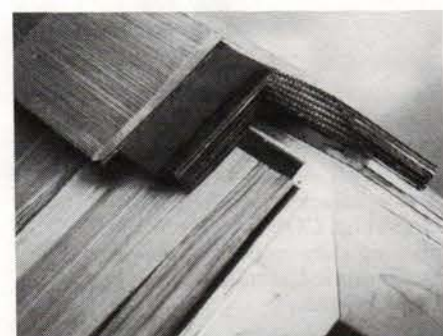
This complex custom copper roof was fabricated and installed by workers from the DURABLE SLATE CO. Write in No. 372

ROOFING & SPECIALTIES PORTFOLIO

For more information on these companies, consult the SourceList on pages 38-42.



Lightweight EIGERSHAKE panels, made of Noryl resin, create the appearance of heavy hand-split shakes; available in 3 wood colors. Write in No. 827



COR-A-VENT provides a nearly invisible way to conceal attic ridge vents under either saddle boards or shake ridge caps. Write in No. 527



MIDLAND ENGINEERING CO. refurbished and reinstalled 4 turret caps at the University of Notre Dame's 1889 Sorin Hall. The sheet-metal caps, historic ornamentation that had never been properly maintained, suffered serious deterioration due to rust, bird excrement, and lightning. Write in No. 742



CERTAINTEED produces premium-grade, extra-thick asphalt shingles in colors and shapes that can create the look of traditional slate, shingle, and tile roofs. Write in No. 754



Cast bronze snow guards in a variety of patterns for slate, tile, and shingle roofs are the specialty of MULLANE SNOW GUARDS. Write in No. 56



NEW ENGLAND SLATE provides new and salvaged slate in full color ranges, along with restoration color matching. Write in No. 7



This highly detailed custom copper leader box was hand-fabricated by CONTEMPORARY COPPER.



A new copper roof can be given an instant green verde patina with a solution from PATINA FINISHES & COPPER COATINGS. Write in No. 315



HILLTOP SLATE, a quarrier-fabricator of New York-Vermont natural slate in all colors and sizes, was called upon to match original slates on the roof of this Queen Anne Victorian. Write in No. 995



Roof of this historic home in Daytona Beach, FL, was restored under a Federal grant with BERRIDGE Victorian Shingles, prefinished with Kynar 500 "Lead Cote." Write in No. 783



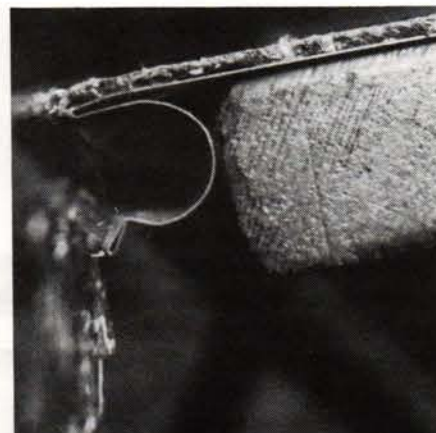
CELADON CERAMIC SLATE is an interlocking slate substitute produced in 5 natural colors with slate texture. It's lighter in weight and less expensive than natural slate. Write in No. 894



FOLLANSBEE is the source for traditional terne metal as well as premium-grade, long-lasting terne coated stainless (TCS); both can be used for standing-seam and batten-seam metal roofs. Write in No. 867



Among the many types of decorative millwork available from CUMBERLAND WOODCRAFT are fancy-butt cedar wood shingles. Write in No. 131



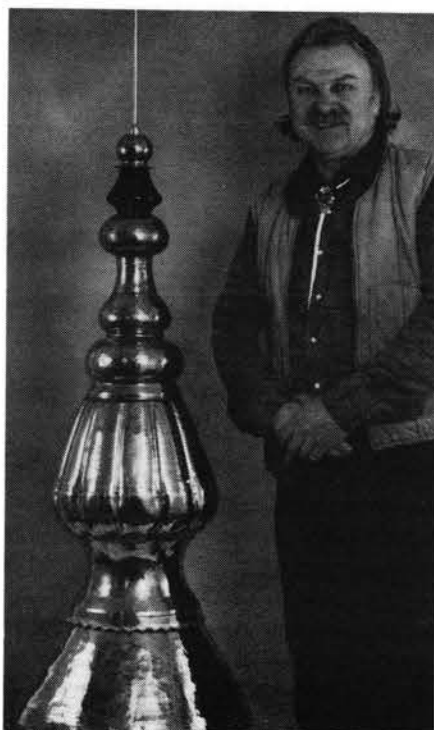
EMPIRE SCROLL FLASHING is a new metal drip edge for sloped roofs with minimal pitch, or roofs with convex decorative moldings. Write in No. 857



Urethane coatings from ARMOR PLUS INTL. are used in a wide range of roofing repairs, such as the built-in gutters on this majestic Colonial Revival house. Write in No. 229

ROOFING & SPECIALTIES PORTFOLIO

For more information on these companies, consult the SourceList on pages 40-44.



A handcrafted copper finial produced by Bernhardt Seifert's custom metal-work company, ADORNMENTS FOR ARCHITECTURE. Write in. No. 749



Snap-On standing-seam panels from PETERSEN ALUMINUM were used to re-roof this 19th-century railway station in West Chicago, IL. The Snap-On panels come in both aluminum and hot-dipped galvanized steel.

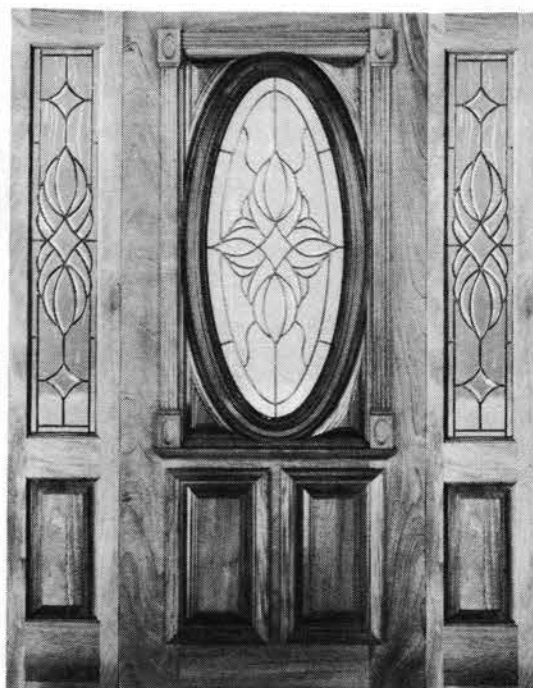


A steeplejack with The JACK HASSLER COMPANY replaces missing slate on the steeple of St. Dominic Catholic Church in Philadelphia.

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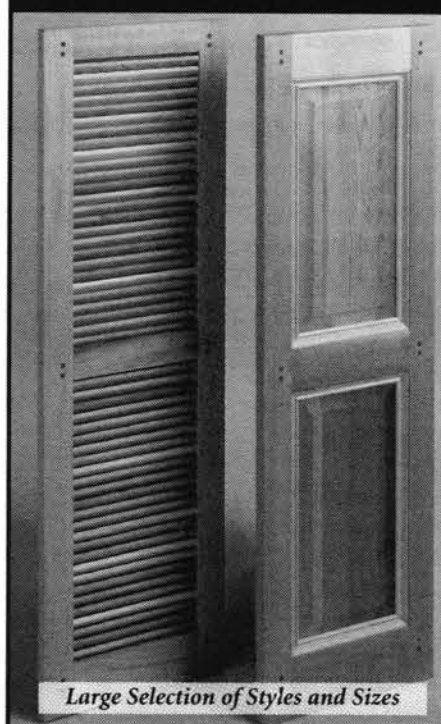
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WRITE IN NO. 123

HISTORIC
WINDOWSspecial
report

Wood Windows: Still Vital

With a bit of attention, existing wood windows can usually be repaired to last the rest of your life. They embody appropriate technology, energy efficiency, and have a long history of reliability. What else could anyone want?

By James Boorstein, *Traditional Line, Ltd.*

If the tens of millions of existing wood windows in America could vote, if they had lobbyists and advertising budgets, we would be bombarded with slick, glossy messages touting their virtues. But old windows have two big problems: They are old, and they are not "product." "New" is usually considered better, though many new things are designed to mimic or evoke the old, often without the straightforward quality of the original. Should we really trust a new gizmo or folded plastic spring more than gravity?

The majority of wood windows in the U.S. are double hung, one sash over the other; they go up and down, balanced by counterweights. The cast-iron weight, metal pulley, and wooden sash almost always outlive the weak link in double-hung windows — the sash cord (sash chain lasts longer). Many windows are deposited in dumpsters for the mere offense of a broken sash cord. This is like throwing away your shoes when the laces break.

Windows are a unique architectural element. They are our most fragile protection from the world outside — as well as our connection to it. Unlike bricks, clapboards, roofs, or cornices, windows simultaneously affect the exterior and interior of a building. New windows seldom complement or harmonize with older buildings; instead they contribute to the homogenizing of our architectural environment.

Until recently, a window was considered to be an integral part of a building, treated more like a structural member than a disposable product. Today, the appearance of our cities and towns is being changed by salespeople for the window industry much as it was in the middle of the century by salespeople for the aluminum siding industry. In rich and poor neighborhoods across the country, wholesale window replacement is becoming as common as a new paint job. Another cover up/replace-it industry has blossomed to assuage our advertising-inspired lust for the new. We are willy-nilly abandoning an important aspect of our architectural heritage, to feed that lust.

The Energy-Efficiency Myth

Is it fashion, or has the job description for windows changed? Do new windows really perform the task of a window better than old ones? The majority of

"replacement" windows are made from relatively new materials: Aluminum, composites, and vinyl. It will be surprising if ten or twenty years from now today's replacement windows can be restored or repaired. More likely, they'll have to be replaced (again).

The majority of wood windows that are thrown away each week have been in service for more than 75 years. With a bit of knowledge and skill, many of these windows could easily and inexpensively have been restored to last at least five or ten more years. With more work and maintenance, they would have lasted 50 years or more — an impressive and time-proven fact, though it sells no new product.

There is nothing inherently wrong with new materials, but they do not yet have a track record. Can extruded aluminum, vinyl, or fiberglass be adjusted, planed down, or touched up? Perhaps, as some manufacturers claim, new windows will never need adjusting; perhaps the new buildings they are installed in will not move or settle.

Existing wood windows can often be reglazed and weather stripped to significantly improve their "energy efficiency." Almost all new windows have a higher 'R value' than old windows; however, R value is only the measurement of thermal resistance, one aspect of total energy efficiency. As a consumer culture, we do not consider the energy used in producing more product — the energy used to manufacture and transport raw materials like aluminum, glass, and vinyl around the globe. The energy cost and environmental impact of cyclical rebuilding every ten, twenty, and thirty years (depending on how optimistic you are), is significant. In addition, discarded windows add to our already overburdened landfills; construction debris is the single biggest component of landfills.

For most of our history, a large amount of human labor was involved in producing building materials and supplies. Human labor is still required to restore and maintain old windows. Labor is expensive, which is one reason many Americans are out of work. Industry has machines that can build new windows but none that can fix those that are in use. Existing wood windows can be scraped, sanded, and painted for a crisp, clean appearance; but doing even a sloppy job takes longer than watching a replacement window "popped" into place.

Servicing and maintaining our existing building stock is not only energy efficient, it is *appropriate* technology. It supports people in our own communities, it reduces waste, and it is a small step toward protecting ourselves from premature obsolescence. Working on old windows is interesting, challenging work; it can be easily learned. The National Park Service has a thick and informative publication on the subject; other books and articles are also available. Architects need education as much, or more, than craftspeople, because increasingly architects are involved in decision-making about the restoration of older buildings. Writing a spec that calls for New Windows (Brand X or comparable) is considerably easier and cheaper than spending time looking at and analyzing the existing windows to determine the right course of action. The average home, apartment, or commercial-building owner is often focused only on short-term price with a new-product mentality. Restoration is frequently not even considered. The word "value" seems to have evolved to mean lowest price, regardless of the outcome one or twenty years down the road.

As autumn approaches, football games and the latest model cars will surround us. The window industry will tempt us with their new materials: Ultrex, MoistureShield, TimberStrand, Werzalit, etc. I suggest a long second look at existing windows before discarding them for the new Whatsit brand.

There are, of course, situations when it is sensible to replace existing windows; some windows have been neglected too long, and replacement costs are significantly less than full repair. Historical significance is not always an issue. If replacement is the choice, look at the range of available windows and select one with good quality that will last. Explore the energy used and what chemicals are produced in their manufacture; inquire if the new or hybrid materials are recyclable. Windows, unlike computers, should not become obsolete in a few months or a year. Pay attention to the installation.

At Traditional Line, when we repair and restore old windows, we use almost no new material. Occasionally, we have the opportunity to work on delicate Greek Revival or other historic windows, which have been functioning daily in and around New York City for over 150 years and are still going strong. With maintenance, they will outlast much of what has been built since. Their beauty, age, and history radiate from inside the buildings out to the public. ■

James Boorstein is a partner in Traditional Line, Ltd., an architectural restoration firm founded in 1984. Aside from restoring wood windows, the company is known for its careful, high-quality woodwork and finishing, as well as restoration of period furniture and related objects.



In this TRADITIONAL LINE, LTD. project, this Greek Revival window and many others in an 1830's townhouse in Manhattan's Greenwich Village were fully restored more than 10 years ago; they remain in excellent condition.

The exterior was scraped and painted. The sills were completely removed and replaced with new wood sills matching the original in species and profile.

The sash were taken out and joints re-glued where necessary and patched with matching sugar pine. The lower edges of the bottom sash were replaced with new wood to repair weathered and water-damaged areas. Many of the very thin muntin and mullion joints were still tight.

All interior trim was stripped, repaired, and repainted. The shutters were removed, re-built, and re-hung to open and close easily and evenly in shutter pockets, which had changed shape considerably over the past 150 years.

Window Repair & Refurbishment

Unlike vinyl — and most aluminum windows — wood windows can be repaired repeatedly to last 150 years . . . and beyond.

BY SHARON GARBE

Old wood windows that have been neglected or vandalized are subject to afflictions of Jobian scale: Blistering and cracking paint, devastations by insects and fungus, and loose, missing, or rotted parts. Yet, because of the integrity of the material and joinery, an old wood window that looks beyond repair is often salvageable — in the right hands. And when properly restored, old refurbished windows are frequently better than products that can be bought today.

Often repair, or a combination of repair and replacement, is not even explored because of shortsightedness and misconceptions about cost and quality, the difficulty in planning and budgeting, and the scarcity of experienced restorers. Finding a company with the experience and skill to repair wood windows is easier than it was a decade ago, but restorers are still vastly outnumbered by companies that offer window replacement. To correct this imbalance, and to increase the demand for repair services, greater understanding of the advantages and techniques of refurbishing windows is needed among both specifiers and clients. Peter Brown, a contractor in the Boston area notes, "I'm a fervent believer in window repair. During the energy crisis of the 70's, I was all for using replacement windows with insulated glass. But at this point I realize the payback isn't that great. The wood and the details just aren't as good. I try to get this across to clients, but I can't afford to lose a job because the client's wrong."

To gauge current market attitudes towards window refurbishment, I spoke to a number of experts in the field. At the bottom of this page is a list of companies that repair and supply products for the repair of wood windows.

Window Condition Evaluation

Not all windows can be or are worth being restored. The original design might be flawed and more trouble to fix than it merits. Or the deterioration may be too far advanced. Recommendations should be based on the physical condition of a window as well as its historical significance and function in the overall design program (both the interior and exterior).

An evaluative tool for non-experts is on the horizon. John Meyers, of the Center for Architectural Conservation at the Georgia Institute of Technology, has developed a prototype computer program called "Window Expert System," in conjunction with the U.S. Army. It asks users a series of questions about the building, window types, and the physical condition of each window. The program then evaluates the information and makes repair/replacement recommendations.

Paint Removal

Scrapers, dental tools, and forced-air heat guns seem to be the weapons of choice to remove paint from old window sash. Tom McGrath, of the National Park Service, is the director of a work-centered preservation training program for Park Service maintenance people. The scope of one job he mentioned included 1,800 wood windows. For paint removal, McGrath's team uses heat guns. Because of lead hazards, windows are removed and the work is done in a containment trailer set up with filters; protective clothing is worn, and air is supplied. McGrath laments the demise of good dip shops. He says very few have survived the new Federal safety regulations. "Chemical stripping preserves the historic fabric, but it's very hard to find skilled places anymore."

Jim Boorstein, of the architectural restoration firm Traditional Line, Ltd., also uses the heat-and-scrape method. He said that if he has to dip, he makes a chemical tank himself rather than send it out. "Improper dipping often creates more trouble by loosening the glue joints and leaving a residue that wrecks the finish later."

John Greenwalt Lee, preservation consultant and architectural materials conservator, has written an exhaustive set of window inspection and repair specs for a current project: The restoration of the Wyck House in the Germantown section of Philadelphia. This house museum, which belonged to the same family from 1690 to 1973, is unique in that much of the original architectural fabric still exists in context. The goal of the restoration is not only to preserve and conserve, but to serve as a model for architectural conservation. The window specs (scheduled for a 1995 publication) will be used in tandem with a hands-on training program at the Wyck.

Epoxy Consolidation

The use of epoxy in the repair of decayed wood windows has become exceedingly popular in the past decade. Says John Lee: "Epoxy is the savior of windows — if it's used right." The major precaution is to make sure that you're using an epoxy specifically formulated for wood repair, and which has an established track record. Two of the more reputable epoxy systems are made by Abatron, Inc., and Epoxy Technology, Inc. All epoxies are not alike; you need one formulated especially for wood conservation that expands and contracts at the same rate as wood with changes in temperature and moisture content.

Those with reservations about epoxy consolidation cited improper application as a potential cause of failures and possible aesthetic problems on truly historic fabric. For example, Jim Boorstein hardly ever uses epoxies, inserting dutchmen whenever possible, preferring to handle wood rather than a petrochemical. J. Ladd, a contractor in Burlington, Vt., has mixed feelings about epoxy: "It's great for small fixes that don't show." But he doesn't like the way it looks when blended with wood and painted, finding the difference in surface finish too obvious.

John Stahl, of Stahl Restorations, says 75% of his work is with windows, and he's seen both successes and failures with epoxies. He attributes the failures to the rigidity of some epoxies as well as to improper preparation before application. For the past two years, Stahl has been using a European epoxy system called Windowcare. (This Dutch system is currently being introduced into the U.S.) Contractor Peter Brown also uses the Windowcare System.

Whether dutchmen or epoxies are used, one advantage of wood windows is that they can be repaired, unlike much of the new vinyl and aluminum product on the market. Stahl states that people are actually ripping out aluminum windows and putting wooden ones back. According to Stahl, the longevity of aluminum windows is 15-20 years. "With proper maintenance, wood windows can last, if not indefinitely, a good 150 years."

Choosing a Wood Window Refurbisher

Richard Spigelmyer, of Replacement Systems International, suggests finding someone who's experienced in working with epoxies. (He says he often sees specs that require firms to have had 5-7 years of window restoration experience.) "A painter or carpenter that comes in with a low bid, but has no experience, will cost you more money in the long run because of failures." He cites a situation in which he was called to fix an epoxy repair that had been done by someone else. Repairs had been made when the wood was too wet. When the wood dried, it shrank around the epoxy, forcing it out. For this reason, Spigelmyer prefers to repair windows in his shop where moisture content can be controlled.

Defensive Measures

John Lee believes window restoration would be greatly advanced by an improved glazing compound. So Lee is working with restoration chemist Morgan Phillips to develop a superior glazing compound for wood window work. For retrofit weatherstripping, Tom Clark, of the historic restoration and consulting firm Leeds Clark, recommends Dorbin's standard rib strip in zinc. The zinc strip functions as a natural fungicide that helps preserve the wood, as well as stopping air and water infiltration. Spigelmyer likes to use woven wool pile weatherstrip, and recommends Schlegel Retrofit Corp.'s product. For a fungicide treatment, Lee recommends a product by Impell: Rods of borax laid in window sills.

Further Information

A major window reference is *"The Wood Window Handbook: Successful Strategies for Rehabilitating Windows in Historic Buildings,"* Edited by Charles E. Fisher III, and co-published by the National Park Service and Georgia Institute of Technology. This binder offers information on dealing with historic windows in both metal and wood. Send \$30 to: Historic Preservation Education Foundation, P.O. Box 27080, Central Station, Washington, D.C. 20038

Resources for Window Repair & Restoration:

- **Abatron, Inc.** 33 Center Dr., Gilberts, IL 60136 800-445-1754. Three epoxy systems used for repairing rotted sash, sills, and window frames; stabilizing wood fibers; and filling gaps and voids. *Write in No. 130*
- **Peter Brown Construction** 96 Ellery St., Cambridge, MA 02138 617-864-8161. General contractors in restoration and renovation. Mostly residential; some commercial. Boston area. .
- **Center for Architectural Conservation** College of Architecture, Georgia Institute of Technology, Atlanta, GA 30332 404-894-3390. John H. Myers at the Center has developed a prototype computerized Expert System that allows personnel in the field to record window condition data that the Expert System converts into a repair/replace recommendation.
- **Dell Corporation** P.O. Box 1462, Dept. TB Rockville, MD 20851 301-279-2612. General contracting firm specializing in epoxy use and timber construction; repairs wood windows. Distributes Beta Epoxy System, useful in wood repair where structural strength is a consideration.
- **Epoxy Technology, Inc.** 14 Fortune Dr., Billerica, MA 01821 800-227-2201. A two-part epoxy system is formulated for repair of rotted sills, sash, and frames. *Write in No. 797.*
- **John Greenwalt Lee Co.** 2831 Haven Rd., Annapolis, MD 21401 410-224-4481. Hands-on architectural conservator consults on all aspects of building restoration/preservation, including the refurbishing of windows, cornices, stonework, etc. Runs on-site training programs for contractors, crews, and artisans. .
- **J. Ladd Refined Carpentry** 32 Spruce St., Burlington, VT 05401 802-864-7280. Local specialist in architectural restoration and renovation of Victorian buildings, emphasizing the preservation of original fabric.
- **Leeds Clark Restoration** 300 N. Third St., Midlothian, TX 76065 214-775-3843. Wide range of Main St. restoration services: Window replacement and repair, storefront renovations, rebuilding wood awnings, masonry repair, and metal cornice work. Also: Condition assessment and workshops.
- **Replacement Systems International** P.O. Box 2304, Kalamazoo, MI 49003 616-345-8214. Restoration and replication of historic windows in all shapes and styles, in wood, steel, bronze, and aluminum; residential and commercial. Other services include historic window surveys, and installation of weather-stripping. *Write in No. 679*
- **Specialty Glazing & Supply** 150 N. Schuyler Ave., Ste. 1006, Kankakee, IL 60901 815-937-5101. Complete window restoration in situ or in the shop; includes either epoxy consolidation or remilling to match. Also, conversion to insulating glass.
- **Stahl Restorations** P.O. Box 1991, Hoboken, NJ 07030 201-659-6754. Full range of architectural preservation services, from restoration of wood windows to creation of new millwork in traditional styles.
- **Tech-Wood Co., Inc.** 62 Halsey St., Newport, RI 02840 401-849-6575. Small architectural woodwork company with experience in historic preservation — repair and replacement of windows, doors, etc.
- **Traditional Line Ltd.** 143 W. 21 St., New York, NY 10011 212-627-3555. Specializes in restoration and reproduction of all types of traditional wood architectural elements, from residential to museum quality. Wood window restoration; all sizes of projects. ■



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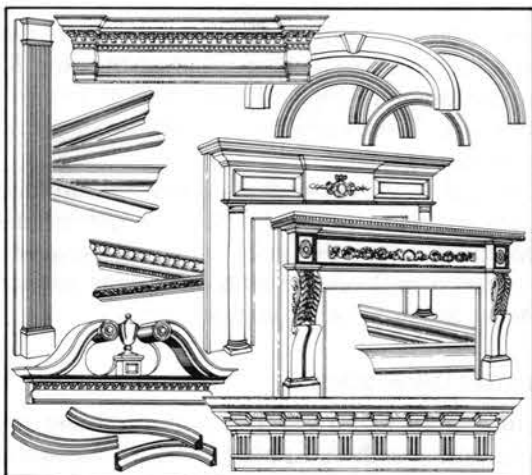
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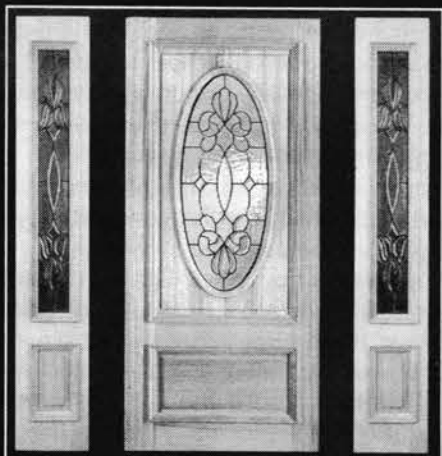
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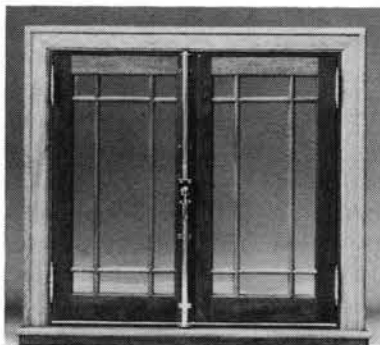
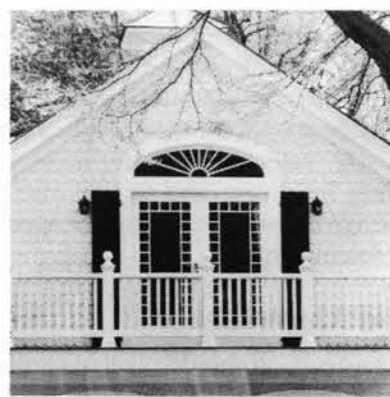
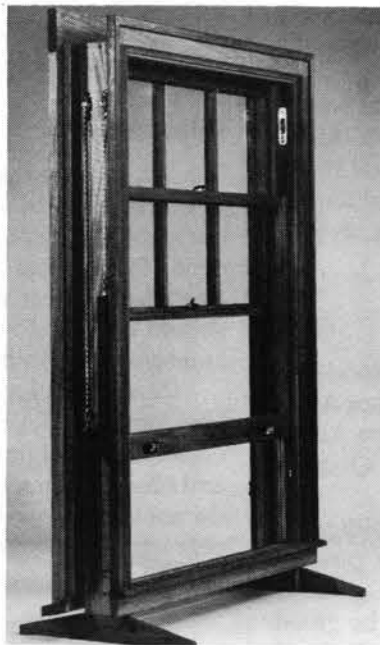
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WRITE IN NO. 964

Specifying True Divided-Lite Windows With Insulated Glass

Designing historic sash to accommodate thick, heavy insulated glass units is not a simple task. A custom wood window manufacturer tells how to avoid the most common problems.

by Charles Bellinger

Architectural Components, Inc.

Advances in glass technology and millwork techniques during the past decade have given rise to the popularity of true divided-lite, insulated-glass wood windows for historic buildings and historically styled new construction. The increased availability of more competitively priced, insulated, custom wood windows means that architects must pay closer attention to writing specifications for a product that will make them and their clients proud.

Custom window design, like custom building design, is always different. Standard window specifications do not always apply to custom true divided-lite wood windows. Thus, specification writers need to know what can be done for a reasonable price and what they should avoid entirely.

Design Issues

Designing a replacement sash is clearly not a case in which one size fits all. Since every building is different, replacement sash must be carefully designed to match the existing or original sash.

The U.S. Department of Interior's Standards for Rehabilitation affirm the architectural significance of windows in historic buildings. Thus, the number of glass panes, the dimensions of the stiles, rails, and muntins, and the profile should match the original sash as closely as possible.

The use of insulated glass suitable for historic windows may mean some compromises regarding the muntin size and the width of check rails — especially on double-hung sash. The much heavier insulated glass in an upper sash will automatically transfer onto the bottom rail, making it structurally impossible (if not cost prohibitive) to produce a window with narrow muntins and rails that would typically be found, for instance, in a Boston sash.

Lastly, selecting counterbalances, weatherstripping, hardware, and screens also pose important design considerations for the specifier, as well as the manufacturer.

Wood Materials

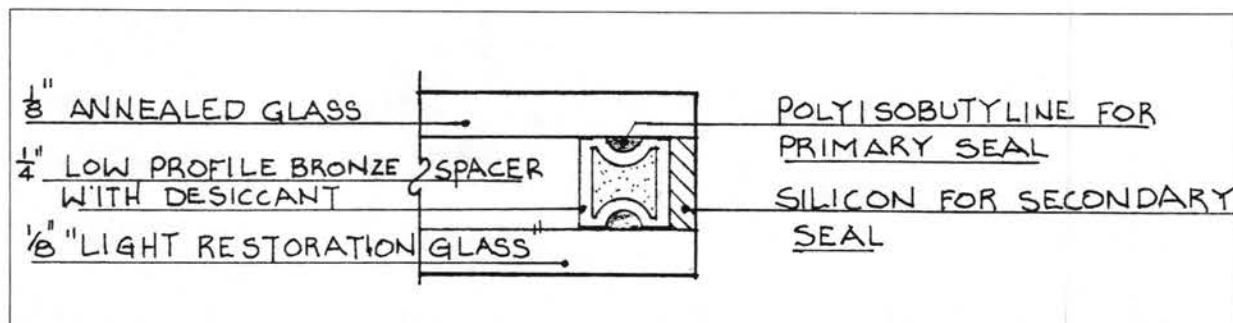
Sash construction should meet or exceed standards set by the National Wood Window and Door Association (NWWDA), NWWDA I.S.2, and the Architectural Woodwork Institute (AWI) Quality Standards: AWI 1000.

The window sash for most historic buildings is made of clear kiln-dried, Eastern white pine or genuine Honduran mahogany, with through mortise-and-tenon joinery. The joints should be glued under pressure with Type 1 waterproof glue and pinned with either wood pegs or stainless steel pins. The sash should be preservative treated in accordance with the NWWDA I.S.4.

Muntin Size

Today's window technology makes it possible to produce true divided-lite, insulated windows with a muntin as narrow as 7/8 in. The muntin is limited from being any smaller by (1) the structural requirements necessary to carry the weight of the insulated glass; and (2) the necessity to conceal the spacer and sealants around the individual glass panes.

Insulated glass should be made with a 5/16-in. sight line because larger sight lines will expose the sealants around the glass. A 5/16-in. sight line can only be accomplished by adhering to strict tolerances while cutting the glass and assembling the



The anatomy of an insulated glass unit

insulated glass units.

A section through our typical 7/8-in. muntin is shown in the accompanying diagram. The muntin's exterior edge is beveled to replicate putty glazing. The glass is installed from the interior side, bedded in high-quality silicone on both sides and secured with wood glazing stops, shaped to match existing profiles. The muntin's structural integrity comes from a combination of factors: The muntin itself, sealants, glass, and wood stops.

By installing the glass from the interior, the building owner can replace broken panes from inside the building without removing the window or working from ladders or staging.

It's important to remember that the mechanical properties of glass limit the overall dimensions of a custom window. Larger pieces of glass expand and contract more, adding pressure inside the unit as environmental conditions change. Large windows, such as a two-over-one sash, typical of Victorian homes, require more space between the wood and glass, as well as a wider seal around the glass. For these reasons, we do not recommend using a 5/16-in. sight line and/or a 7/8-in. muntin with glass over four square feet.

Glazing

Specify insulated glass with compatible dual seals. The primary seal should be polyisobutylene and the secondary seal, low modulus, neutral-cure silicone. Typically, a narrow-profile, dessicant-filled aluminum spacer will separate the glass. Corners should be joined with keys, blanketed with butyl, and sealed with silicone.

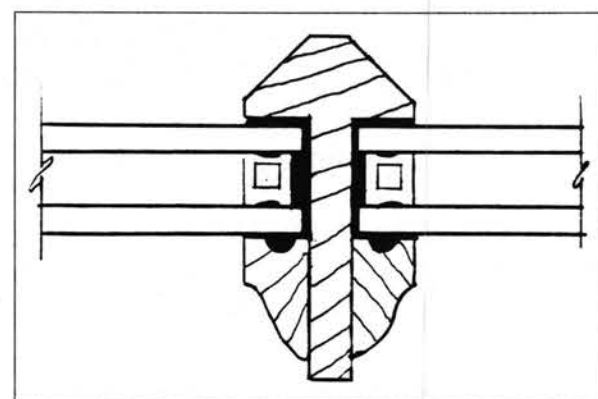
Glazing options include clear annealed glass, "Restoration Glass" (a trademark of Bendheim Glass), "Neutral tint," Low-E glass, tempered glass, and obscure glass. However, some historic districts do not allow Low-E glass, because of its reflective characteristics. Neutral tint glass is much less objectionable than the earlier Low-E glass, which had a noticeable blue or yellow tint.

To install the insulated units, the glass should be set in a compatible low-modulus silicone and secured with wood stops.

Glass manufacturers generally offer a five-year warranty against seal failure. However, most glass shops that specialize in making narrow sight line, insulated glass units are too small to afford the high cost of SIGMA-certified (Sealed Insulated Glass Manufacturers Association), CBA-labeled units. Therefore, we recommend that you or your window supplier check the glass manufacturer's references and inspect its materials, systems, and quality-control procedures. Although expensive and time-consuming, you also can test sample units at various labs.

Weatherstripping

The type of weatherstripping specified depends on



A 7/8 in. muntin bar

the style of window and existing frame construction. Double-hung windows, for example, should be weatherstripped with interlocking bronze at the jamb and meeting rails and installed in accordance with the manufacturer's specifications. A silicone compression seal, which flexes to weathered or uneven surfaces, is the best weatherstripping for along the top of the top sash and the bottom of the bottom sash. These compression seals are typically kerfed into the sash.

Hinged windows, such as casements and awnings, should be dual-sealed with a sweep-type seal, mounted on either the sash or the frame, and a compression seal on the stop. This may require replacing the stops or adding new ones.

Counterbalancing

It is important that a window's counterbalancing system and weatherstripping work in harmony. There are numerous counterbalancing options. The most cost-effective and trouble-free system for existing windows, especially for sash over 40 pounds, is weights and pulleys. Old, functional pulleys can be simply cleaned and lubricated and the worn cord replaced with sash chain.

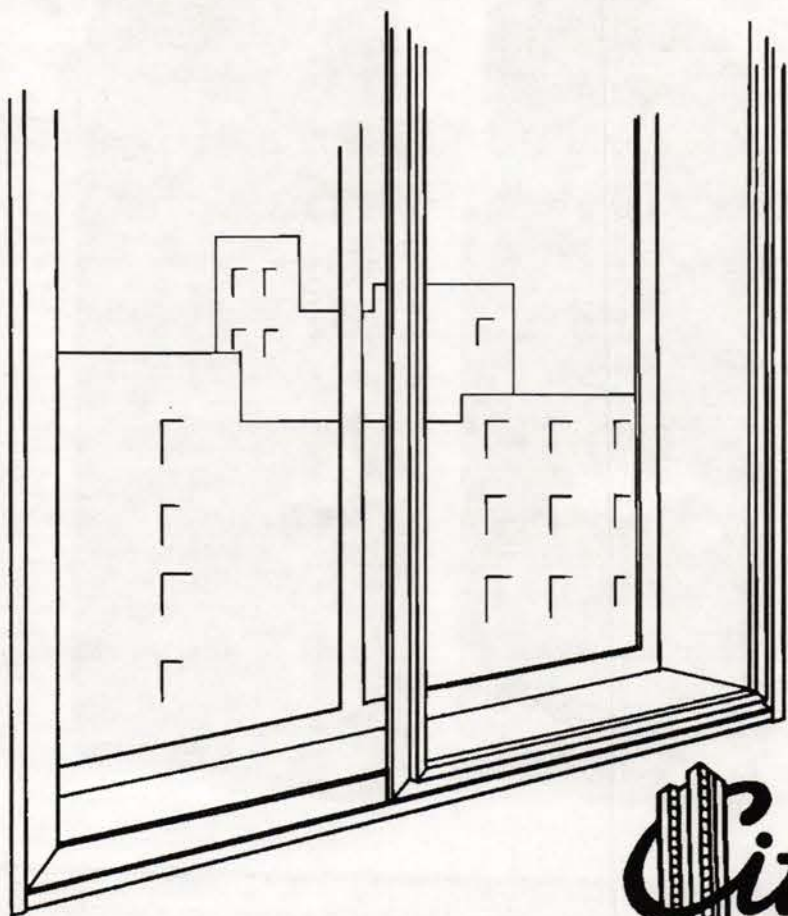
The window supplier should replace the weights with heavier ones or add to the existing weights to accommodate the heavier sash. It also may be necessary to fix the upper sash by putting a wood stop under the upper sash to prevent the larger weights from banging into each other.

Counterbalancing with weights and pulleys does have one disadvantage, however. This type of system leaves an uninsulated cavity in the wall where the sash weights travel. This can be solved by blowing insulation into the cavity and replacing the weights with an alternative counterbalancing system. Other counterbalances include clockspring balances, installed where the pulleys formerly were; a spiral type balance mounted on the jamb; or a concealed block-and-tackle balance, routed into the stile of the sash.

continued on page 56

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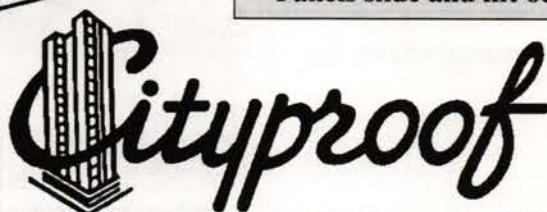


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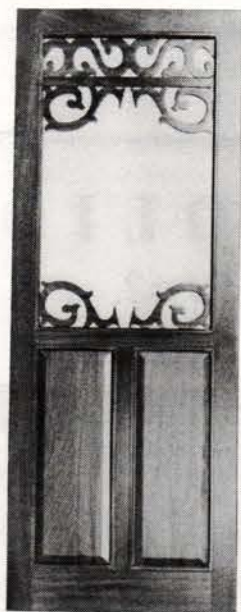


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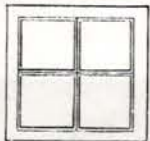
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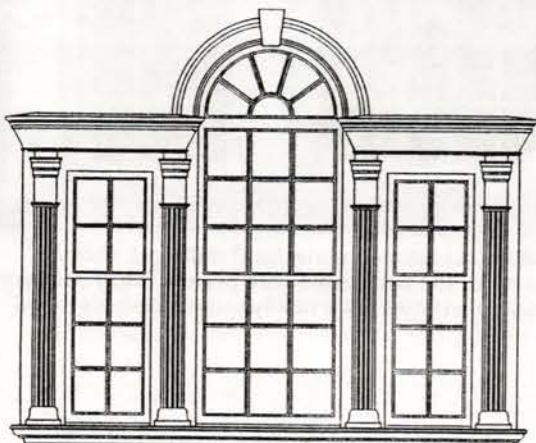


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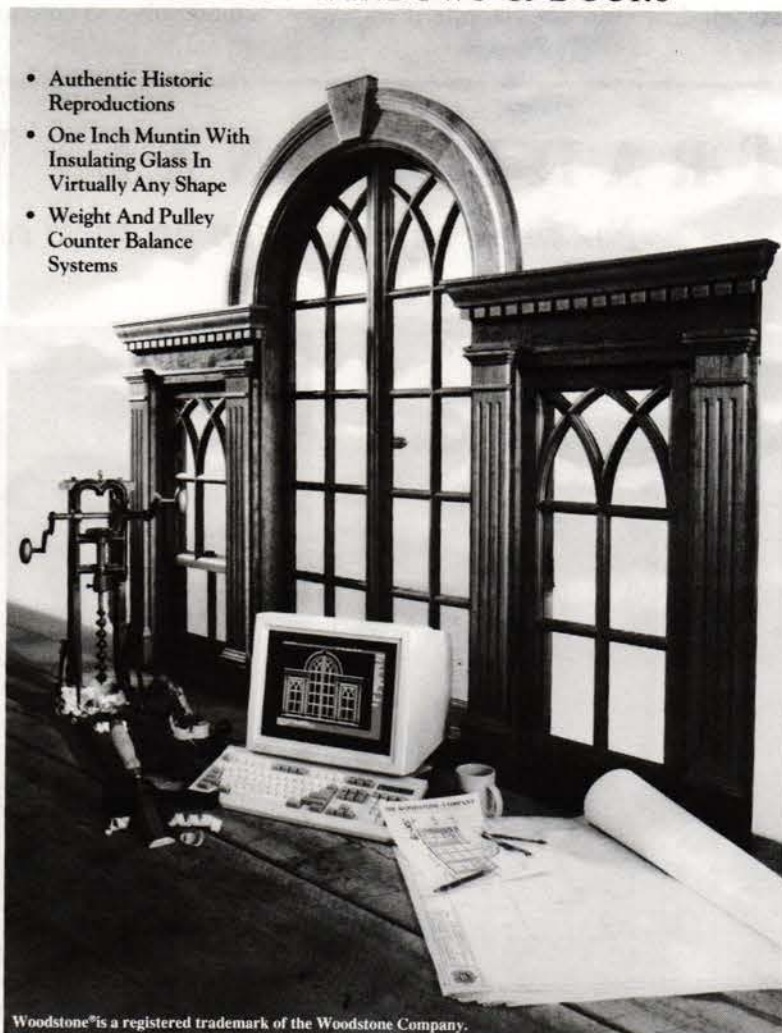
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WRITE IN NO. 843

SPECIFYING DIVIDED-LITE WINDOWS WITH INSULATED GLASS

continued from page 54

Vinyl jamb liners offer an inexpensive alternative for counterbalancing and weatherstripping. Their use, however, is generally not allowed in landmark buildings and historic districts.

As with all products, there are different levels of quality in balances, too, so be certain that you know how you want the window to operate, and specify accordingly.

Trim

It is generally most cost effective to replace parting beads and interior sash stops, rather than restore them. A window survey should be done to determine the degree of restoration work required for the frames, sills, blind stops, and exterior casings or brick moldings. The amount of work may range from painters' prep and repainting to epoxy consolidation to replacing certain parts. This work cannot be bid fairly without an accurate survey and specification.

Hardware

If the window hardware is historically significant, it may be possible to simply clean and restore it. If not, there are many quality manufacturers of window hardware. Specifications should detail types of hardware, materials from which they are made, and finish.

Preservatives & Finishes

All exterior wood should be preservative treated in accordance with NWWDA S.4 and primed with an alkyd-based primer. Sash should be primed prior to glazing.

Product Standards

Product guidelines normally followed by custom window manufacturers are

- NWWDA I.S.2 - Grade 40
- NWWDA I.S.4
- AWI 1000
- SIGMA CBA

Installation

Restoring and installing old window frames and installing new sash is a very specialized field and quite different from installing windows in new construction. Therefore, the window installer should have a demonstrated history of restoration work. Check references carefully!

There are always inherently unclear areas in architectural specifications. The installer and manufacturer have to work closely in order to delineate areas of responsibility.

Warranties

The window industry's standard warranty on materials and craftsmanship is



Architectural Components, Inc., fabricated this replacement window in Eastern white pine and mahogany sash, insulated glass, and 1-in. muntin bars for Weld Hall, Harvard University.

one year from the date of substantial completion. Insulated glass is normally warranted for five years. ■

Charles Bellinger is president of Architectural Components, Inc., a custom millwork company in Montague, Mass., with special expertise in custom and reproduction historic windows. See

TRADITIONAL WINDOW PORTFOLIO

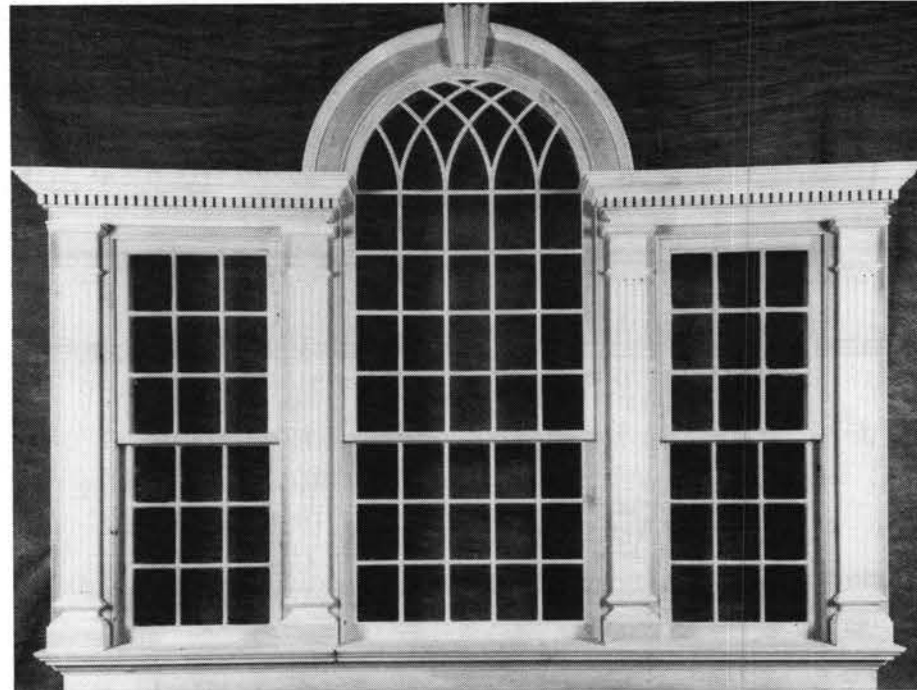
For more information on these companies, consult the SourceList on pages 58-62.



A bow-front custom wood window with insulated glass crafted by KOLBE & KOLBE.

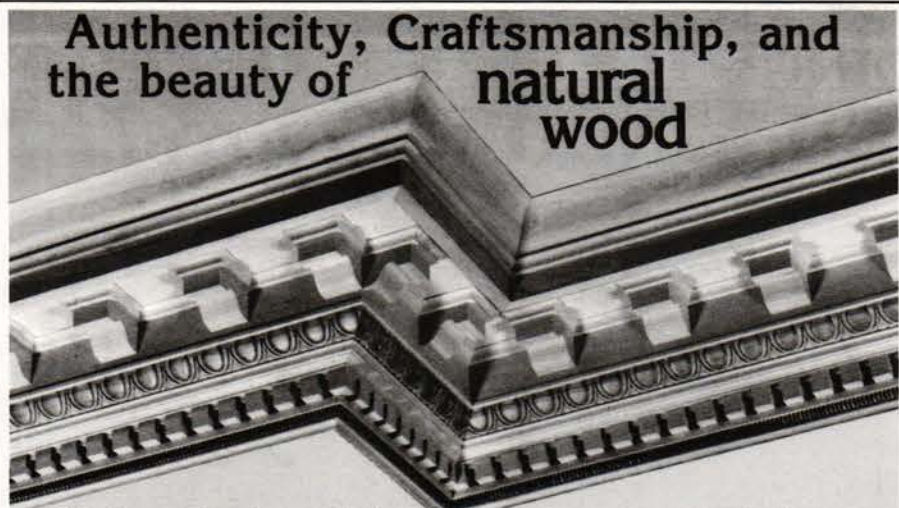


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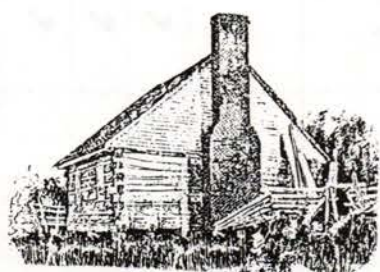
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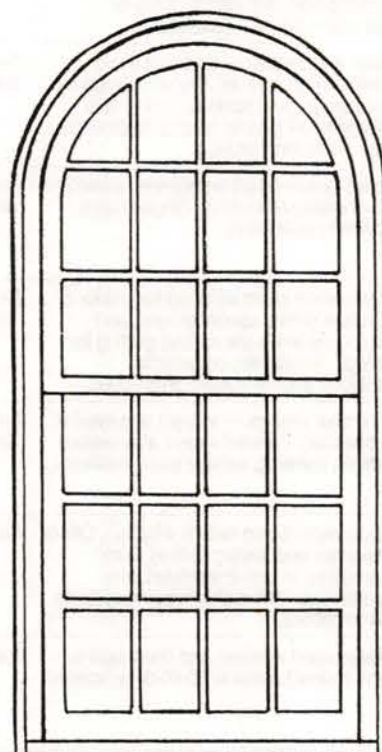
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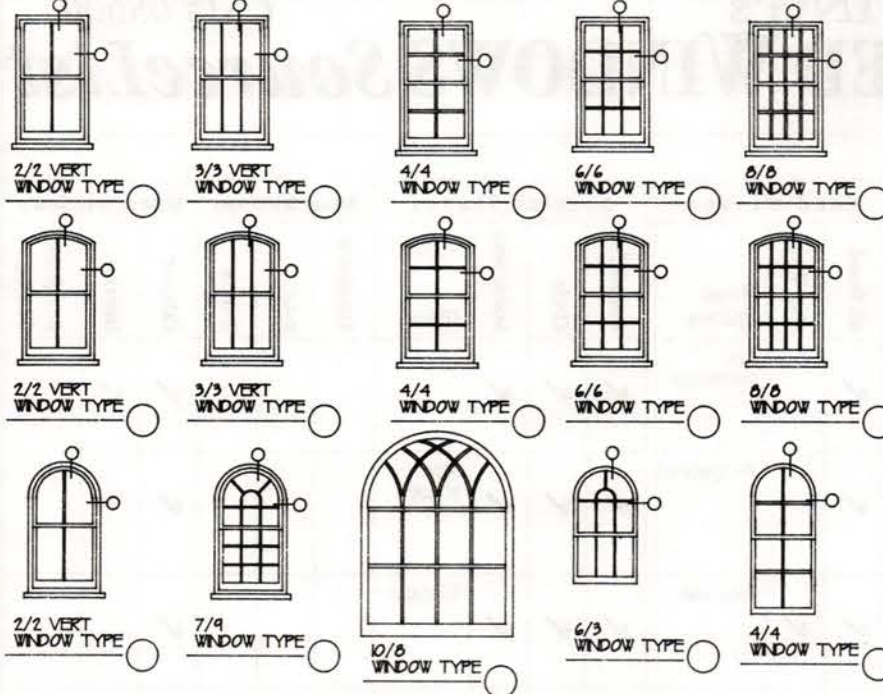
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Advantage Window Systems P.O. Box 1384, Dept. TB Port Washington, NY 11050 800-944-0338, 516-944-3644	Manufacturers of 'Comfort Plus' interior storms, which feature insulating glass, integral weather-seal, narrow-profile (1-1/8 in.) hardwood sash (paint or stain grade), and custom sizes for commercial and residential installations.	Free Write in No. 79	✓		Poplar, pine, oak, mahogany									✓	
Air-Flo Window Contracting Corp. 194 Concord Street, Dept. TB Brooklyn, NY 11201 718-875-8600	Manufacturer and installer of landmark wood windows with custom layouts. Any wood specified. Makes wood storms and screens, and installs aluminum storms. All glazing options. Residential, commercial, institutional projects.	Free Write in No. 828	✓		As specified	✓	✓	✓	Any shape	✓	✓		✓	✓	✓
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Arctic Supply, Inc. 565 County Rd. T., Dept. TB Hammond, WI 54015 715-796-2292	Kolbe & Kolbe wood windows and doors built to custom (and historic) specs in 20-40 days; special shapes.	Free	✓	✓	Pine, oak, cherry	✓	✓	✓	Any shape						
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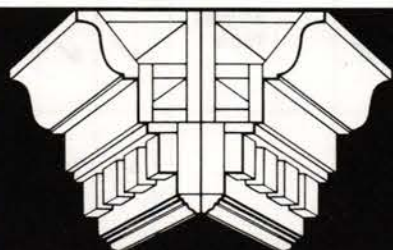
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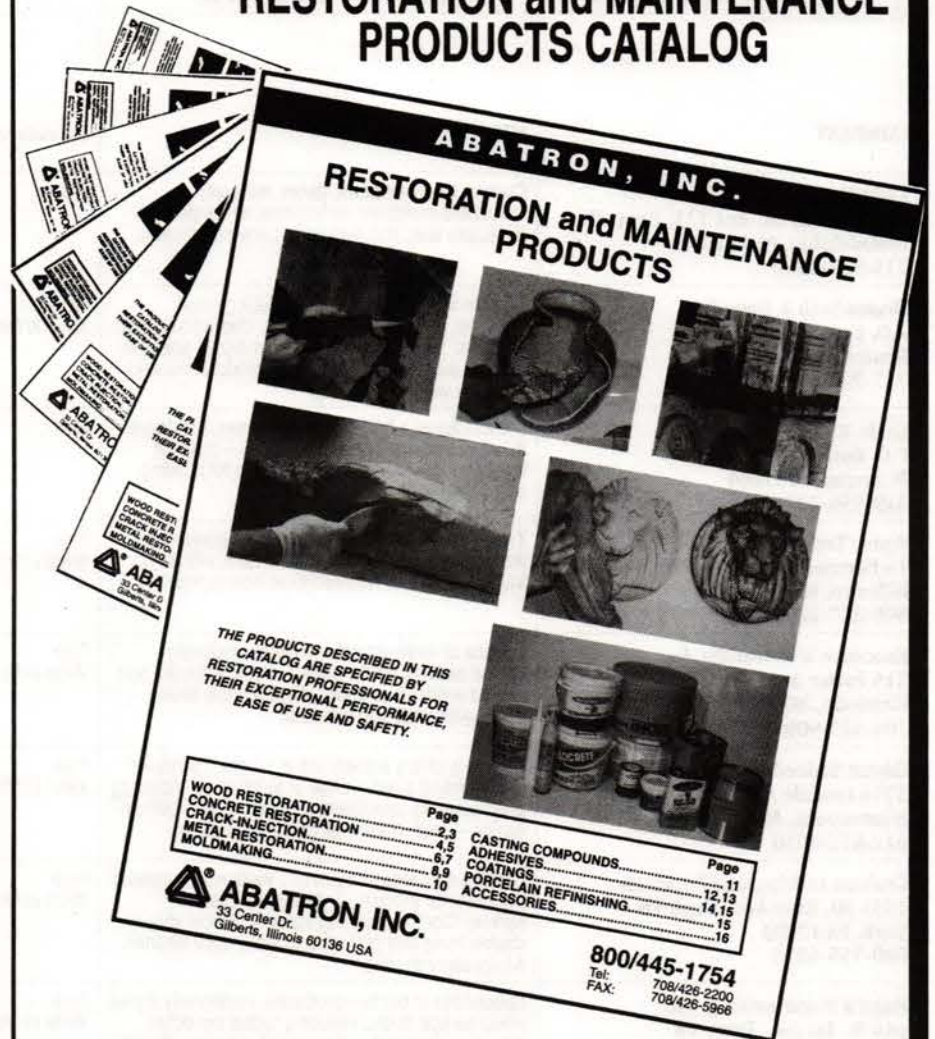
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			All Wood	Clad Wood	Wood Species	Round Top	Circle	Gothic Arch	Other	Aluminum	Steel	Bronze	Exterior	Interior	Protective Glazing
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Drums Sash & Door Co. P.O. Box 207, Dept. TB Drums, PA 18222 717-788-1145	Custom millwork company producing wood windows, narrow muntin profiles, clad wood, storm windows, special shapes, window repair, specialty glazing, custom work, historic reproductions, and specialty weatherstripping.	Free Write in No. 114	✓		As specified	✓	✓	✓	Any shape				✓		
Eagle Window & Door P.O. Box 1072, Dept. TB Dubuque, IA 52004 319-556-2270	Manufactures a broad line of windows and doors in a wide variety of shapes and sizes — many in traditional styles — that are suitable for building renovation applications.	Free	✓	✓	Pine, oak	✓	✓	✓	Elliptical				✓		
Epoxy Technology, Inc. 14 Fortune Drive, Dept. TB Billerica, MA 01821 800-227-2201	Two-part epoxy system used for restoration and repair of wood windows. Rotted sash, sills, and frames can all be restored to as-new condition.	Free Write in No. 797			Epoxy repair materials										
Executive Woodsmiths, Inc. 215 Foster Ave., Dept. TB Charlotte, NC 28203 704-527-9090	Full line of architectural woodwork, including curved casings for concave, convex, elliptical, and arched windows or doors. Also, window heads, door pediments, and pilasters.	Free Write in No. 932	✓		As specified				Window casing & trim						
Gaytee Stained Glass, Inc. 2744 Lyndale Avenue S., Dept. TB Minneapolis, MN 55408 612-872-4550	Company offers a spectrum of art glass windows incorporating a wide range of techniques, including glass painting, sandblasting, faceting, and custom design — both traditional and contemporary.	Free Write in No. 508	✓		Art glass inserts	✓	✓	✓							✓
Graham Architectural Products 1551 Mt. Rose Ave., Dept. TB York, PA 17403 800-755-6274	Custom-engineered aluminum windows for historic preservation projects. Full range of custom options: Contour panning, curved window shapes, double-hung and projected models, color finishes. All specialty glazing.	Free Write in No. 629				✓	✓	✓	Any shape, true divided lites	✓					
Hahn's Woodworking, Inc. 646 W. 1st Ave., Dept. TB Roselle, NJ 07203 908-241-8825	Specializes in custom-produced, traditionally styled wood garage doors, including radius top doors. Also manufactures custom wood windows. Woods include Honduras mahogany, red oak, cypress, cedar, and redwood.	Free Write in No. 664	✓		As specified	✓	✓	✓	Any shape				✓	✓	✓
Humboldt Door & Window Center 139 Y St., #1, Dept. TB Eureka, CA 95501 707-443-5788	High quality architectural millwork to customer specification. Complete line of redwood windows and French doors in any size or design. Residential and commercial installations.	Free	✓			✓	✓	✓	Any shape						
Iannuzzi Millwork, Inc. 7207 E. McNichols, Dept. TB Detroit, MI 48212 313-365-4545	Historically styled windows; any size, shape, wood species. Also, stock and custom millwork, including architectural components, high-end furniture, and display pieces.	Free	✓		Mahogany, pine, oak	✓	✓	✓	Any shape				✓	✓	✓
Johnson Millwork, Inc. Quarry Hill Rd., Dept. TB East Hampton, CT 06424 203-267-4693	Classic custom windows, doors, and entries since 1950. True divided lite, custom sticking, thickness, and wood species. Circular and elliptical work a specialty.	Free Write in No. 108	✓		As specified	✓	✓	✓	Elliptical, leaded sash						
Kawneer Company, Inc. 555 Guthridge Ct., Dept. TB Norcross, GA 30092 404-449-5555	"Sealair" (non-thermal and thermal) single- or double-hung windows for commercial applications and historic restorations. Various perimeter systems, muntins, exterior panning, and interior trims.	Free				✓	✓	✓	Any shape						
Keep In Touch/Villager Storm Window 30 Lafayette Sq., Ste. 118, Dept. TB Vernon, CT 06066 800-569-9075	Distributors of 'The Villager Window', an 'invisible' storm window created for restoration work in Old Sturbridge Village. Features include 1/16 in. aluminum side jambs, sill expander, cast or acrylic enamel coated exterior. Lexan, Low-E, UV-filter, other glazing options.	Free Write in No. 530				✓	✓	✓	Any shape				✓	✓	✓
Kolbe & Kolbe Millwork Co. 1323 S. 11th Ave., Dept. TB Wausau, WI 54401 715-842-5666	Duplication of historic casing, trim, and window styles using modern glazing options. Residential/Commercial/Institutional applications.	Free	✓	✓	As specified	✓	✓	✓	Any shape				✓		
Lindsay Sash, Inc. 1995 Commerce Dr., Dept. TB North Mankato, MN 56003 507-625-4278	Manufactures historic wood sash, storms and screens. Residential, commercial, and government installations.	Free	✓		Pine	✓	✓	✓					✓		
Lovington Historic Window P.O. Box 616, Dept. TB Lovington, VA 22949 804-263-8845	Historically accurate, energy efficient, true-divided lite wood windows and replacement sash; 20 yrs. in business. Residential and commercial; full options on weatherstripping and glazing.	Free Write in No. 665	✓		Pine, mahogany	✓	✓	✓	Any shape				✓	✓	✓
Magnetite Corporation 8356 Tom Drive, Dept. TB Baton Rouge, LA 70815 504-927-8712	Magnetic interior-mounted storm windows create an insulating air space; special shapes available for both commercial and residential applications.	Free				✓	✓	✓	Any shape					✓	
Maurer & Shepherd 122 Naubuc Ave., Dept. TB Glastonbury, CT 06033 203-633-2383	Shop specializes in historic reproduction architectural millwork, especially Early American and classical styles, in pine and mahogany: Windows, doors, entryways, raised paneling.	Free	✓		Pine, mahogany	✓	✓	✓	Elliptical				✓	✓	
Midwest Architectural Wood Products 1051 S. Rolff St., Dept. TB Davenport, IA 52802 319-323-4757	Produces custom windows and doors with a special emphasis on historic restoration projects. AWI premium grade construction is used, with a wide variety of glazing and wood species options.	Free Write in No. 146	✓		As specified	✓	✓	✓	Any shape				✓	✓	
Millwork Specialties 189 Prospect Ave., Dept. TB Brooklyn, NY 11215 718-768-7112	Custom millwork shop specializing in the manufacture of landmark windows, doors, and entryways. Commercial or residential; all wood species; bent, round, or arched tops.	Free Write in No. 305	✓		As specified	✓	✓	✓	Any shape				✓	✓	
New Found Woodworks 3525 Lawson Blvd., Dept. TB Oceanside, NY 11572 516-536-1200	Custom and historic reproduction wood windows, doors, and moldings. Custom knife profiling on premises. Long and short run custom moldings. Member Architectural Woodwork Institute.	Free Write in No. 304	✓		As specified	✓	✓	✓	Any shape				✓	✓	

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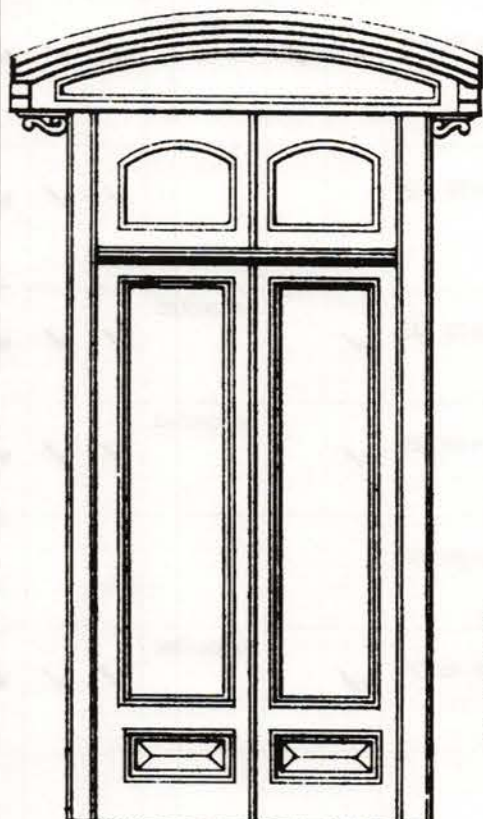
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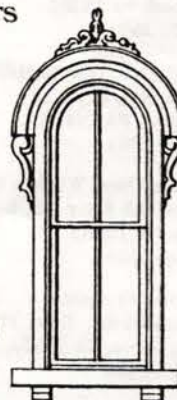
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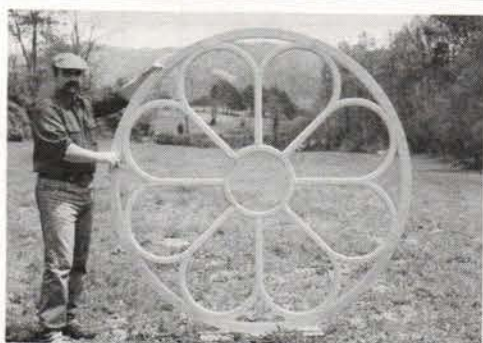


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LOVINGTON, VA 22949

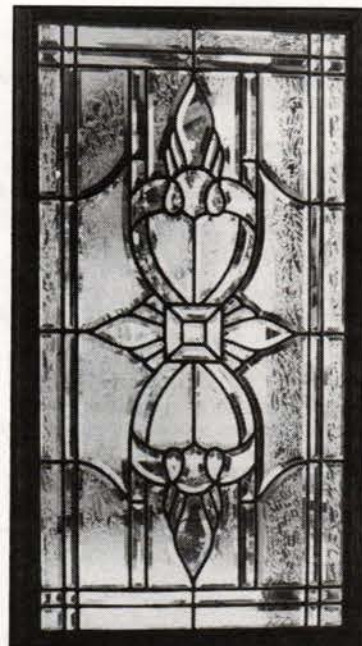
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			All Wood	Clad Wood	Wood Species	Round Top	Circle	Gothic Arch	Other	Aluminum	Steel	Bronze	Exterior	Interior	Protective Glazing
North Fields Restorations P.O. Box 741, Dept. TB Rowley, MA 01969 508-948-2722	Architectural salvage company carrying wide range of antique building parts, including old windows and antique window glass.	Free Write in No. 326	✓		Antique										
Oslo-America, Inc. 2 Vernon Street, Dept. TB Framingham, MA 01701 508-875-5514	Furniture-grade custom-made windows and doors, including double-hung windows, outswing casements, tilt & swing windows, folding doors and windows, and monumental windows. Residential/ Commercial/ Government installations.	Free Write in No. 756	✓	✓	As specified	✓	✓	✓	Any shape				✓		
Patmore Millwork Company 1240 Central Ave., Dept. TB Bridgeport, CT 06607 203-333-2105	Historic and modern windows, doors, and entryways made to custom specifications. Full range of woods; true divided insulated units with narrow 1-in. muntin bar.	Free Write in No. 765	✓	✓	As specified	✓	✓	✓					✓		
Walter E. Phelps Co. Woodworking Box 453, RR #5, Dept. TB Brattleboro, VT 05301 802-257-4314	Devoted exclusively to design and construction of accurately detailed wood sash and windows for historic preservation projects. Clients include SPNEA, Landmark Trust, National Park Service, Strawberry Banke. All weatherstripping and glazing options.	Free Write in No. 911	✓		As specified	✓	✓	✓	Elliptical, bowed, segmental						
Red Baron's Antiques 6450 Roswell Rd., Dept. TB Atlanta, GA 30328 404-252-3770	This antique warehouse & auction house has a wide variety of items from many periods: Art glass windows, doors, mantels, lighting, hardware, furniture, bars & back bars, fine & decorative arts, and much more.	Free Write in No. 989	✓		Antique, art glass										
Replacement Systems International P.O. Box 2304, Dept. TB Kalamazoo, MI 49003 616-345-8214	Restoration and replication of historic windows in all shapes and styles of wood, steel, bronze, and aluminum. Custom wood and aluminum windows; residential, commercial, and government. Historic window surveys; all weatherstripping and glazing options.	Free Write in No. 679	✓	✓	As specified	✓	✓	✓	Any shape	✓	✓	✓	✓	✓	✓
Rohlf's Studio, Inc. 783 S. Third Ave., Dept. TB Mount Vernon, NY 10550 800-969-4106, 914-699-4848	Retrofit existing steel casements with insulating glass, or supply new. Restore leaded glass and/or fabricate new leaded glass. Antique lead available. Art glass conservation and fabrication nationwide for residential, commercial, institutional, historic, and landmark buildings.	Free Write in No. 624				✓	✓	✓	Any shape	✓	✓	✓			
Ruffin & Payne, Inc. Box 27286, Dept. TB Richmond, VA 23261 804-329-2691	Manufactures wood windows to custom size and detail, as well as doors and other millwork to order. Historic replications; authentic Colonial Williamsburg detail a specialty.	Free Write in No. 335	✓		As specified	✓	✓	✓	Elliptical, bowed, segmental						
Seaquay Architectural Millwork Corp. P.O. Box 308, Dept. TB Bridgeport, PA 19405 215-279-1201	Manufacturer of custom wood windows with true divided lites: single pane or insulated glass, round head, arch head, or square head. All weatherstripping and glazing options.	Free Write in No. 686	✓		As specified	✓	✓	✓							
Seekircher Steel Window Repair 630 Saw Mill River Rd., Dept. TB Ardsley, NY 10502 914-693-1920	This shop specializes in steel casement window adjustments and repair for residential, commercial, or historic buildings. Experienced on major landmark projects.	Free Write in No. 359									✓				
Tenebruso Company 2842 Gaston Rd., Dept. TB Cottage Grove, WI 53527 608-839-4518	Shutters, solid wood doors, and custom windows made with mortise-and-tenon joinery; curved tops & muntins are made with laminate bends. Shop can work from photos, sketches, descriptions, or CAD system drawings.	Free Write in No. 72	✓		As specified	✓	✓	✓	Elliptical, bowed, segmental						
Thermo-Press Corp. (VA) 5406 Distributor Dr., Dept. TB Richmond, VA 23225 804-231-2964	Interior storm windows for historic properties and building renovations. Full range of window and glazing types, including inside units that attach with Velcro and have an inter-gasket seal.	Free											✓	✓	✓
Torrance Steel Window Company 1819 Abalone Avenue, Dept. TB Torrance, CA 90501 310-328-9181	Steel casement, awning, hopper, and doors in 3 series: 2600 Light Intermediate, 1250 Standard Intermediate, and 1500 Heavy Intermediate.	Free Write in No. 833									✓				
Traditional Line, Ltd. 143 W. 21st St., Dept. TB New York, NY 10011 212-627-3555	Architectural restoration specialists who restore all types of interior architectural woodwork, including wood windows. Extensive landmark experience.	Free	✓		Wood window repair										
Weather Shield Mfg., Inc. One Weather Shield Pl., Dept. TB Medford, WI 54451 800-477-6808, 715-748-2100	Accurate profile duplications for historic reproduction. Has just added a new, 7/8-in. muntin true divided-lite window; special shapes. Residential and commercial projects.	Free	✓	✓	Pine, oak, cherry	✓	✓	✓	Any shape				✓		✓
Window Saver Co. 177 East Riding Dr., Dept. TB Carlisle, MA 01741 508-369-8505	Produces kits for the creation of custom-sized, made-on-site, inside-mounting magnetic storm windows. White/bronze paintable frames.	Free Write in No. 687												✓	
Wood Window Workshop 839 Broad St., Dept. TB Utica, NY 13501 315-732-6755	Custom wood windows and doors in all shapes, styles, and wood species. Historic replicas to match originals, down to the smallest detail. True divided lites, bronze interlocking weatherstripping; brass hardware; all glazing options.	Free Write in No. 964	✓		All species	✓	✓	✓	Any shape				✓	✓	
Woodstone Company P.O. Box 223, Patch Rd., Dept. TB Westminster, VT 05158 802-722-9217	Specialist in making high-quality traditional wood windows. Also provides other millwork, such as moldings, turnings, casework, doors, etc., in a variety of woods, including exotics.	Free Write in No. 843	✓		As specified	✓	✓	✓	Any shape				✓	✓	✓
Zeluck Doors & Windows 5300 Kings Hwy., Dept. TB Brooklyn, NY 11234 800-233-0101, 718-251-8060	Custom duplicating capabilities for any window or door requiring landmark approval; special shapes; all wood species, glazing, and weatherstrip options. Monumental windows and doors for high-end residences, commercial, and institutional projects.	Free Write in No. 692	✓	✓	As specified	✓	✓	✓	Any shape						

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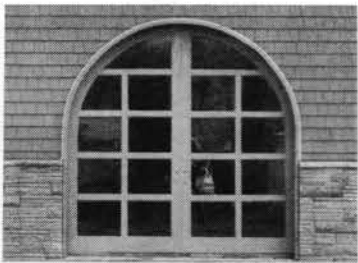
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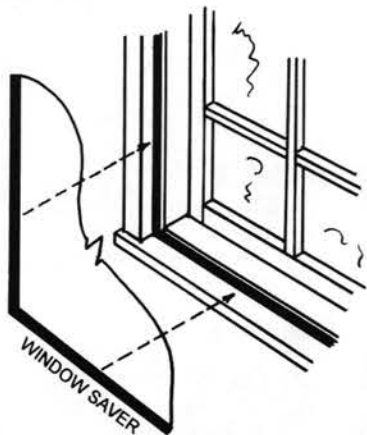
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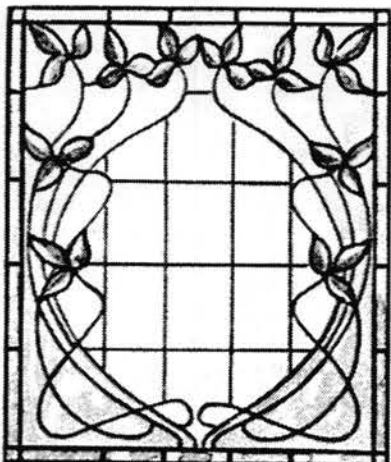
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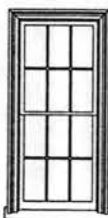
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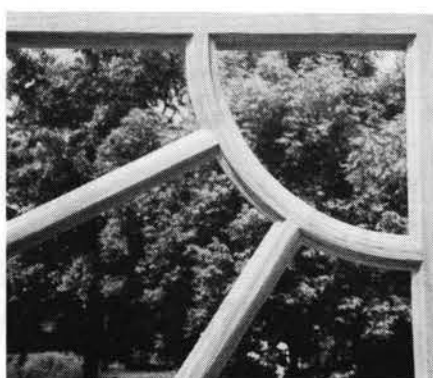
WRITE IN NO. 335

TRADITIONAL WINDOW PORTFOLIO

For more information on these companies, consult the SourceList on pages 58-62.



Premium-quality custom-made energy-efficient wood windows from OSLO-AMERICA were an important component of this church restoration. Write in No. 756



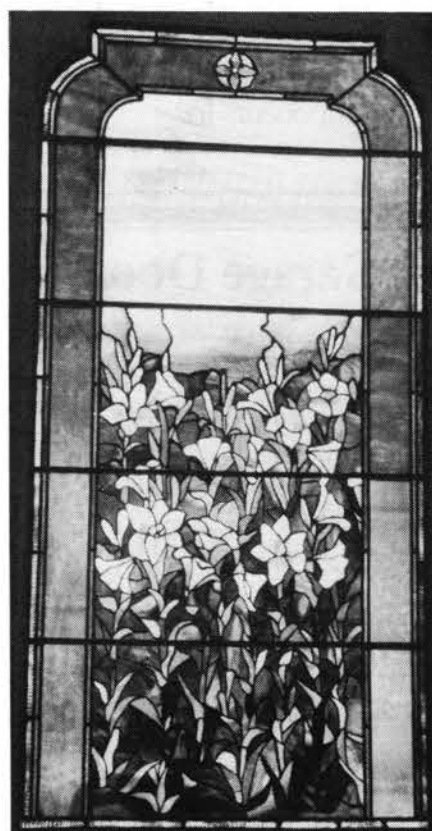
This detail from a custom wood window by TENEBRUSO CO. shows the company's manufacturing virtuosity. Write in No. 72



The intricate custom wood windows for this high-end home reminiscent of the English Queen Anne style were fabricated by CUSTOM WOOD REPRODUCTIONS.



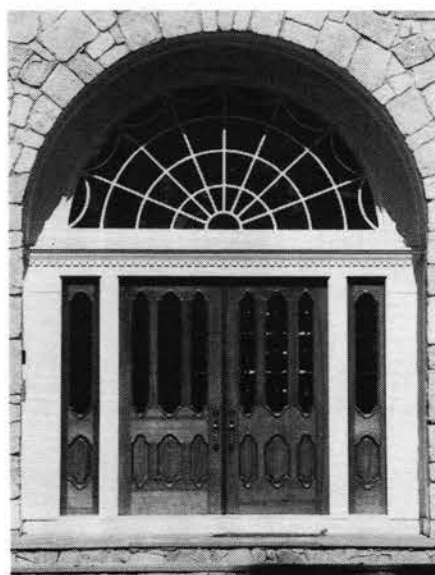
For the landmark Alexander Hamilton Custom House (designed by Cass Gilbert) in New York City, GRAHAM ARCHITECTURAL PRODUCTS CORP. duplicated the historic wood windows in custom-engineered aluminum. Write in No. 629



Architectural antique windows, both in art glass and/or with architecturally significant surrounds and trim, are always in stock at RED BARON'S, one of the largest architectural antique and auction houses in the country. Write in No. 989



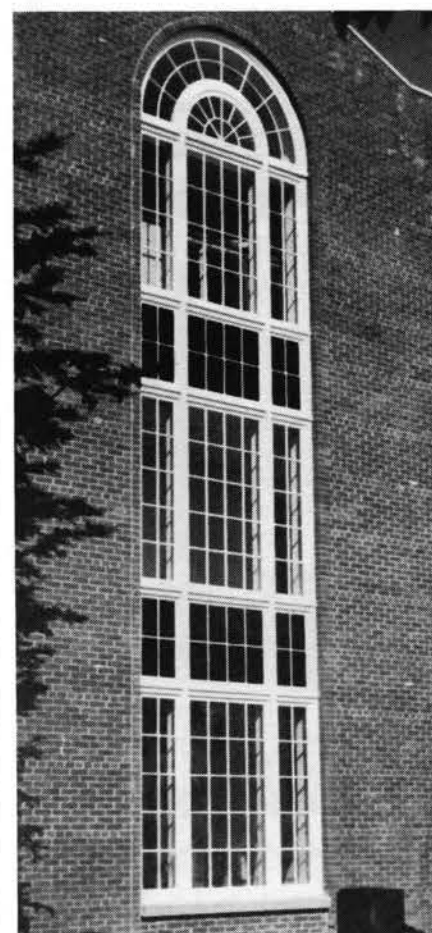
The Villager Storm Window is an ultra-thin, nearly invisible, exterior-mounting storm, distributed by KEEP IN TOUCH. It's been used on many historic installations, including Old Sturbridge Village. Write in No. 530



This custom entry by PATMORE MILLWORK features a half-circle transom with true-divided-lite insulated glass. The sidelites feature leaded beveled glass. Write in No. 765



The manufacturing flexibility of ZELUCK DOORS & WINDOWS that enables it to engineer almost any shape window is demonstrated on this custom bow-front true-divided-lite residential window. Write in No. 692



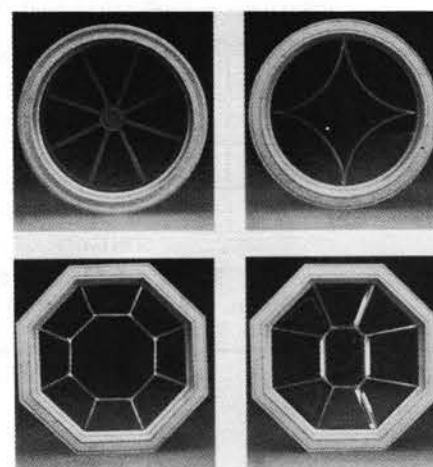
LOVINGSTON HISTORIC WINDOW specializes in historically accurate, energy-efficient, true-divided-lite wood windows for restoration and new construction. Write in No. 665



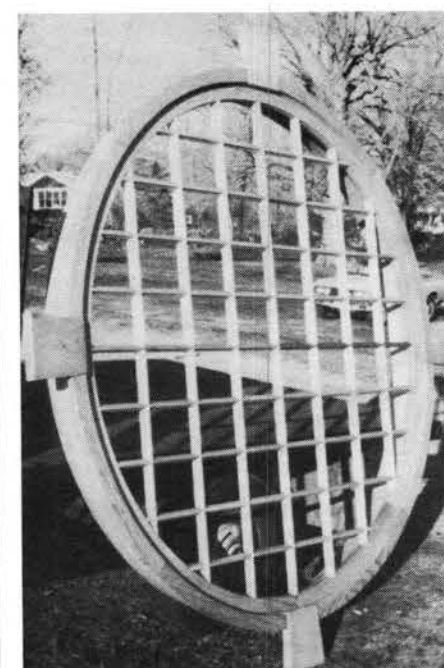
The Orange House, Portsmouth, N.H., is fitted with replacement sash that are precise duplicates of the historic originals. Wood sash for 18th and 19th century residences and museum houses are a specialty of WALTER E. PHELPS WOODWORKING. Write in No. 911




MILLWORK SPECIALTIES has extensive experience custom-producing replacement wood windows for landmark projects, such as this circle-head window for restoration of a Romanesque Revival townhouse. Write in No. 305



The four windows shown above are just a sampling of the specialty ornamental windows produced by CHEMCREST with frames fabricated from structural polyurethane. Write in No. 834

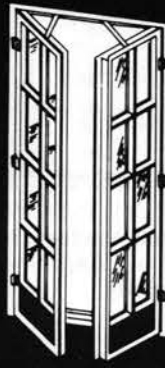


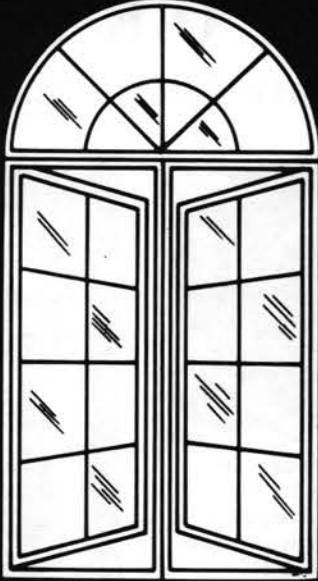
This monumental 8-ft.-tall oval wood window with true divided lites was custom-fabricated in the shop of JOHNSON MILLWORK. Write in No. 108




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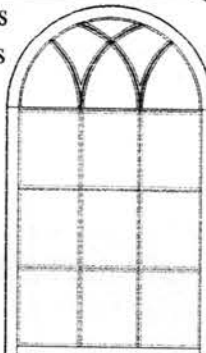


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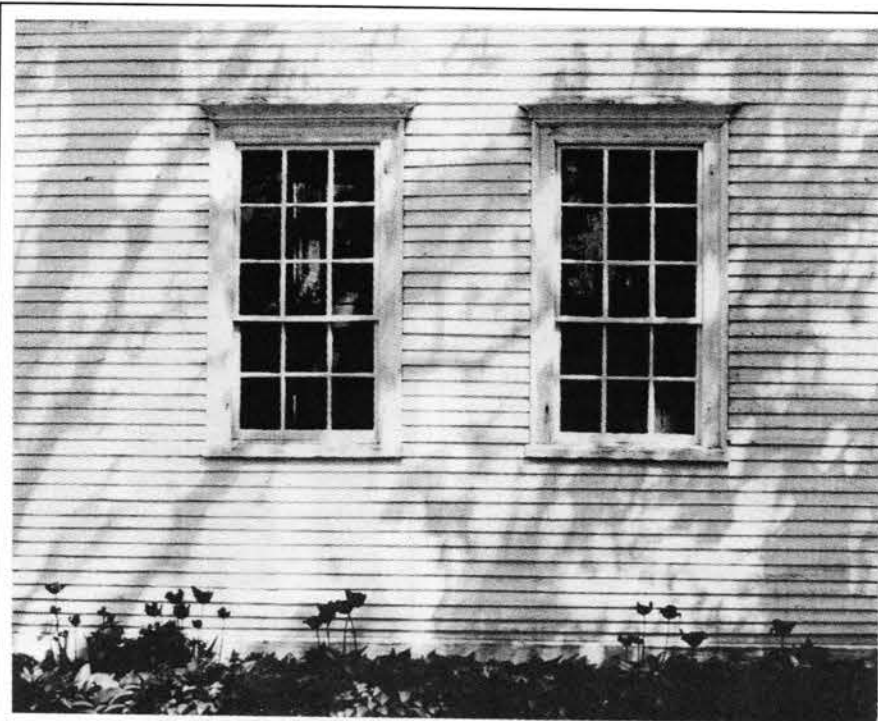
Residential



Architectural

Member Steel Window Institute
1819 Abalone Ave., Torrance, CA 90501
Phone: (310) 328-9181 Fax: (310) 328-7485

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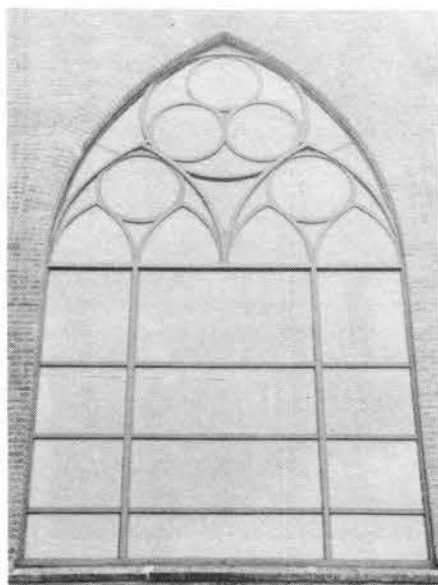
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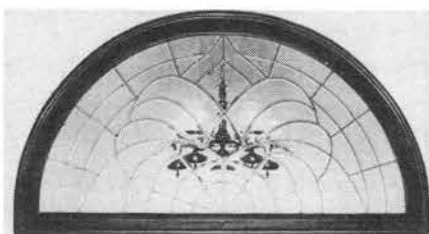
WRITE IN NO. 911

TRADITIONAL WINDOW PORTFOLIO

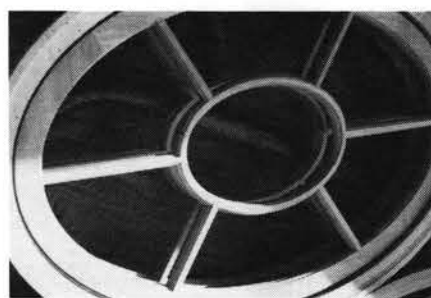
For more information on these companies, consult the SourceList on pages 58-62.



CAFF CO. is an expert in custom aluminum frame fabrication, with special extrusions for leaded glass, faceted glass, protective glazing, and single- or double-glazed units. Write in No. 375



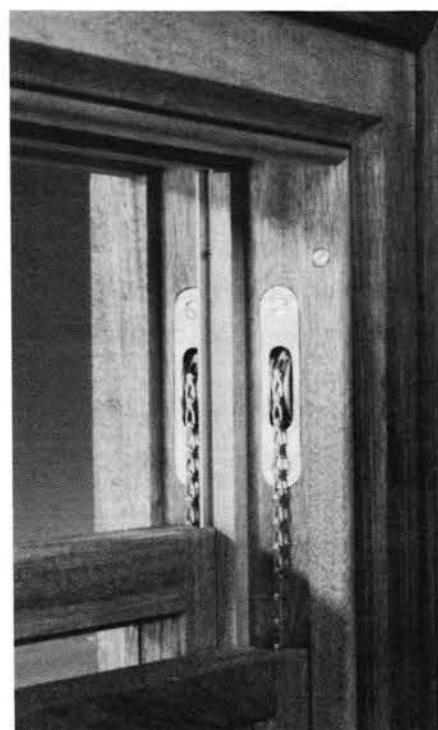
BEVELED GLASS WORKS supplies handmade, leaded, beveled glass doors, windows, and transoms. Write in No. 48



CENTER LUMBER'S know-how in custom-run moldings (they have 1,400 existing profiles on hand) translates nicely into custom window work, like this oval window. Write in No. 680



HUMBOLT DOOR & WINDOW manufactures custom windows in redwood and other wood species; French doors a specialty.



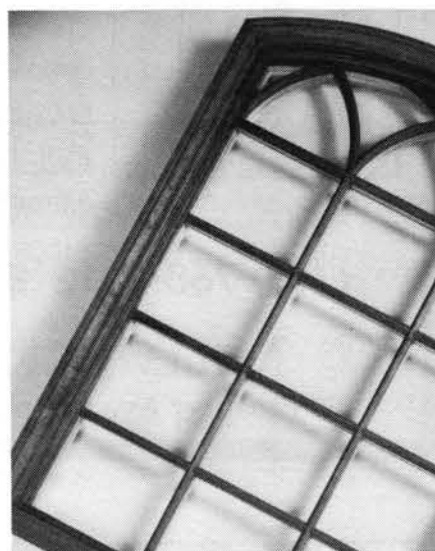
Cast bronze sash pulleys, bronze weatherstripping, copper-dipped sash chain, and stop moldings held with brass screws seated in brass grommets for stop adjustments are typical details in a custom window from WOOD WINDOW WORKSHOP. Write in No. 964



The sun space in this new residence uses custom steel windows from A&S WINDOW ASSOCIATES. For landmark projects, the firm can match old steel profiles with various hot-rolled sections. Write in No. 835



A 20/20 18th-century meeting house window with Restoration Glass built by ARCHITECTURAL COMPONENTS, INC., along with interior storm with insulated glass. ACI also built the raised-panel wainscoting, window seat, and associated millwork.



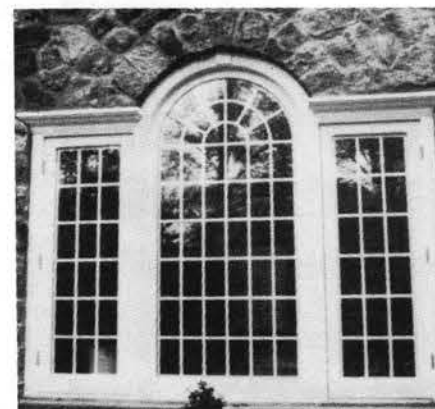
WEATHER SHIELD MFG. produced this true divided-lite Gothic round-top with insulated glass and 7/8-in. glazing bars.



EAGLE WINDOW & DOOR offers traditionally styled windows in both clad wood and all-wood designs.



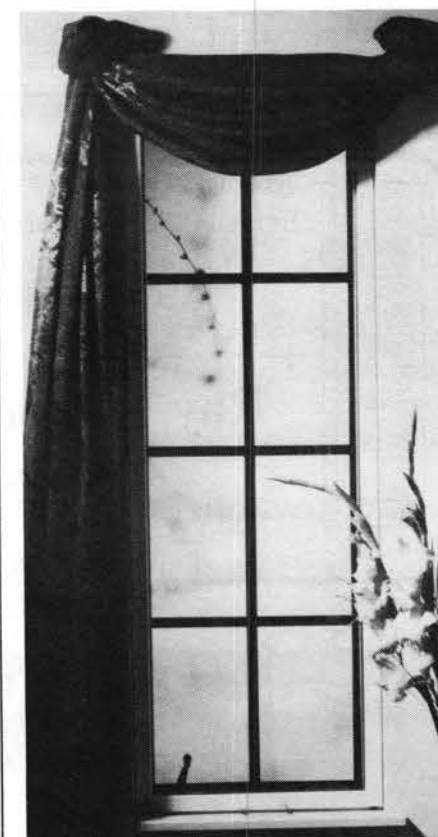
MIDWEST ARCHITECTURAL WOOD PRODUCTS supplied more than 300 replacement windows with insulated glass for an office tower converted into a luxury apartment building in downtown Omaha, NE. Write in No. 146



This Palladian window typifies the top-of-the-line custom windows that are the basic business of WOOD-STONE COMPANY. Write in No. 843



SEEKIRCHER STEEL WINDOW REPAIR specializes in repair of historic steel windows. Here, John Seekircher works on steelwork at Frank Lloyd Wright's Falling Water. Write in No. 359



A Comfort-Plus storm window with insulating glass was installed on the inside of this steel casement window by ADVANTAGE WINDOW SYSTEMS. Write in No. 79

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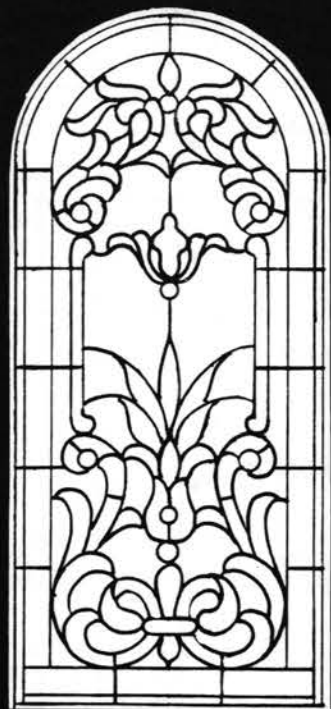
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WRITE IN NO. 114

WINDOW HARDWARE: THE THREE CHOICES

We know about authentic reproductions, and we know about salvage. And we've recently learned about yet another venue for period hardware lurking in an 1878 Cooperstown, N.Y. Victorian: Never-used old hardware.

For this Special Report, we scoured the roster of manufacturers and suppliers of Window Hardware and compiled the *SourceList* on page 68. The companies in our database range from manufacturers of authentic period reproductions, some of whom are also specialists in hard-to-find and obsolete hardware, to salvage/antique shops. (We have not included the salvage sources in this listing because what they offer is often catch-as-catch-can; professional hardware buyers are often looking for complete suites.) In our research, we unexpectedly came across a third source for period hardware.

William J. Rigby, Restoration Consultant, started collecting old hardware about 22 years ago, for use in some of his projects. Then he fell into a treasure trove of never-used hardware — surplus inventory from hardware stores and warehouses. Rigby was amazed at the amount of hardware available, and he started amassing an unequalled collection of window, door, shutter, cabinet, and furniture hardware he and his wife, Janet, sort, clean, research, and sell under the name Wm. J. Rigby Co.

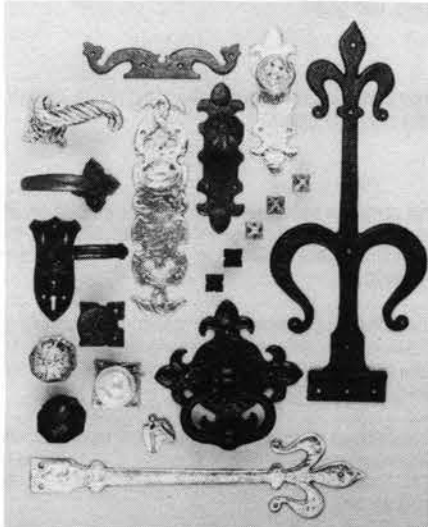
Most of the hardware dates from the late 19th century to the 1930's. Manufacturers include P. & F. Corbin, Sargent & Co., Russell & Erwin Mfg., Reading Hardware Corp., and Norwalk Lock Co. The Rigbys have, for example, over 50 varieties of keyhole escutcheons in stock and at least 6 dozen of any one variety. Other specialty items include transom-window hardware (whole sets in different finishes and sizes); sash pivots in any size or style in cast iron or cast bronze (appropriate for churches, schools, and offices); sliding pocket-door track and roller sheaves; sash lifts in wrought brass and bronze, also with different finishes; and full sets of shutter bars — to name a few.

The biggest difference between most reproductions and those Rigby sells is in the finishes. "Old copper," "old brass," "highlighted antique sand finishes," and "dull black," all quite popular around the turn of the century, are a far cry from "polished," "verdigris," and "brush" — finishes more commonly offered today. That's not to say that authentic reproductions may not be made with those finishes; rather, it's hard to find someone to do them, particularly in small orders.

Rigby is well aware that there is not an endless supply of the old stuff. That's why he's archiving one of each variety and style and, perhaps, will one day start re-casting . . . but that extreme measure comes *only* when his stream runs dry. — JSL

To contact Wm. J. Rigby Co., consult their listing on the *Window Hardware SourceList* on page 68.

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WRITE IN NO. 760

COMPANY	SPECIALTY	Literature	Type Of Hardware			Materials	Weather Strip	Stock	Custom	Antique	% Custom
			Window	Shutter	Awning						
 Accurate Metal Weatherstrip Co. 725 South Fulton Ave., Dept. TB Mount Vernon, NY 10550 914-668-6042	This nearly 100-yr.-old company specializes in window and door weatherstripping in (primarily) zinc and bronze (but can also supply in brass, aluminum, stainless steel, and other metals).	Free Write in No. 104					✓				5%
Acorn Forged Iron P.O. Box 31, Dept. TB Mansfield, MA 02048 508-339-4500	Manufacturer of a wide range of forged-iron Early American builder's hardware, including hinges, latches, slide bolts, pulls, lever handles, and shutter hardware.	Free Write in No. 169	✓	✓		Wrought iron		✓			2%
Architectural Iron Co. Box 126, Schoopce Rd., Dept. TB Milford, PA 18337 717-296-7722, 800-442-4766	Manufacturers of cast-iron stackable window weights in stock (1-1/2 and 2 lb.) and custom sizes.	Free	✓			Cast iron		✓	✓	✓	10%
Ball & Ball 463 W. Lincoln Hwy., Dept. TB Exton, PA 19341 610-363-7330	Company manufactures historically accurate copies of 18th, 19th, and 20th century interior and exterior lighting. Also a major supplier of historically accurate builder's hardware from the 18th and 19th centuries.	Free Write in No. 293	✓	✓		Wrought iron, brass, bronze, cast iron		✓	✓	✓	25%
Barry Supply Co. 36 West 17th St., Dept. TB New York, NY 10011 212-242-5200	Hard-to-find window hardware: Balances, guides, tilt latches, sash weights, sash pulleys, handles, operators; parts for awnings; some shutter hardware.	Free Write in No. 515	✓	✓	✓	Wrought iron, steel, brass, bronze, stainless, cast iron, zinc		✓	✓	✓	20%
Beech River Mill Corp. Box 236, Old Rte. 16, Dept. TB Center Ossipee, NH 03814 603-539-2636	Custom shutters and shutter and blind hardware; duplication and authentic reproduction, in any size or period. Consultation, design, site visit, and installation services.	Free Write in No. 411		✓		Steel, stainless, cast iron		✓	✓		75%
Blaine Window Hardware, Inc. 17319 Blaine Dr., Dept. TB Hagerstown, MD 21740 800-678-1919, 301-797-6500	Manufacturer and distributor of over 40,000 types of hard-to-find contemporary and obsolete window hardware: Casement, jalousie, and awning operators, hinges, window balance systems, and more. Custom antique reproduction available.	Free Write in No. 73	✓			Steel, brass, bronze, stainless, nylon, zinc, aluminum		✓	✓	✓	20%
Bronze Craft Corp. P.O. Box 788, Dept. TB Nashua, NH 03061 603-883-7747	This foundry produces architectural hardware for windows and doors, including a new 4-bar friction hinge, which supports commercial-grade projected and casement windows. Also, registers and grilles.	Free Write in No. 838	✓			White bronze, brass, bronze, aluminum		✓	✓		60%
Cirecast 380 7th St., Dept. TB San Francisco, CA 94103 415-863-8319	Custom top-of-the-line reproduction door and window hardware using pattern designs from 1870-1885. Pieces are cast in bronze, brass, and aluminum using the lost-wax method. Also: Custom-cast lighting.	Free	✓			Brass, bronze, aluminum		✓	✓		70%
Dorbin Metal Strip Mfg. Co. 2410 S. Cicero Ave., Dept. TB Cicero, IL 60650 312-242-2333	Manufacturers of door and window weatherstripping in zinc, bronze, and aluminum. Company carries a full line of thresholds and restoration weatherstripping.	Free Write in No. 791					✓	✓			0%
Hardware Plus 701 E. Kingsley Rd., Dept. TB Garland, TX 75041 214-271-0319	Specialists in creating complete packages of vintage hardware, plumbing, architectural detailing, and accessories for major projects. Hardware meets strict commercial codes and ADA regulations. Custom fabrications available.	Free Write in No. 652	✓			Brass		✓	✓		10%
Kayne & Son Forged Hardware 100 Daniel Ridge Rd., Dept. TB Candler, NC 28715 704-667-8868	Hand-forged or cast brass/bronze custom door, gate, and shutter hinges, locks, latches, bolts, dogs, hooks, brackets, sash lock pins, etc. Castings finished black, antiqued, or polished. Repairs, restorations, reproductions.	Send \$4 for catalog	✓	✓		Wrought steel, steel, brass, bronze		✓	✓		85%
Lighting by Hammerworks 6 Fremont St., Dept. TB Worcester, MA 01603 508-755-3434	Handmade Colonial reproduction lighting fixtures: Chandeliers, wall sconces, wall lanterns & post lanterns, made in copper, brass, and tin. Also, hand-forged door hardware, shutter hinges and dogs, slide bolts; exact reproductions.	Free		✓		Wrought iron			✓		100%
Maguire Iron Corp. 215 22nd St., Dept. TB Richmond, CA 94801 510-234-7569	Antique reproduction (16th-20th c.) builders' hardware in iron and other metals, locks and accessories. Over 1,000 pieces for door, window, cabinet, and gate hardware; 150 matching locks and latches. Custom capabilities.	Free Write in No. 760	✓	✓		Wrought iron, steel, brass, bronze, cast iron		✓	✓	✓	20%
Milford Replacement Hardware RR 1, Box 128, Dept. TB Prospect, VA 23960 800-758-6602	Supplies a wide variety of restoration hardware, with an emphasis on window hardware. Unique items can be reproduced using lost-wax casting. Operators, latches, push bars, etc., for casement and single/double-hung windows.	Free	✓	✓		Bronze, cast iron		✓	✓		20%
Peters & Son, Inc. 1936 N. Front St., Dept. TB Philadelphia, PA 19122 215-739-9500	Company carries period-styled hardware for shutters, doors, and gates.	Free Write in No. 124		✓		Zinc-plated wrought iron		✓	✓		20%
Walter E. Phelps Co., Architectural Specialists Box 453, RR #5, Dept. TB Brattleboro, VT 05301 802-257-4314	Solid brass and steel sash pulleys in ball bearing and plain-bearing models.	Free flyer Send \$7 for full catalog Write in No. 595	✓			Brass, steel		✓	✓		10%
Wm. J. Rigby Co. 73 Elm St., Dept. TB Cooperstown, NY 13326 607-547-1900	This company sells never used, original antique hardware for doors, windows (casement hardware, sash lifts, locks, pulleys), shutters, sliders, and cabinets; the stock is ever-changing.	Free Write in No. 841	✓	✓		Brass, cast iron				✓	NA
Step toe & Wife 322 Geary Ave., Dept. TB Toronto, Ont. M6H2C7 416-530-4200	Specializes in Victorian-styled cast-iron straight and spiral staircases and railings, shipped knocked down to jobsite. Also, iron and steel telescoping curtain rods; reproduction of traditional styles and finishes.	Free Write in No. 47	✓			Wrought & cast iron		✓	✓		5%
Tremont Nail Co. P.O. Box 111, Dept. TB Wareham, MA 02571 508-295-0038	Manufactures decorative-head steel cut nails in 20 different patterns. Restoration nails a specialty. Cut nails can be used in all wood species except cedar. Also, Colonial hardware for windows and doors.	Free Write in No. 657	✓			Wrought iron		✓	✓		5%
Whitco/Vincent Whitney Co. 60 Liberty Ship Way, Dept. TB Sausalito, CA 94966 415-332-3260	Manufacturers of hardware for wood sash windows; clere-story operators for awning and casement windows in hand-operated models. Also, clere-story poles and brass sash fasteners.	Free Write in No. 502	✓		✓	Brass, cadmium		✓	✓		80%



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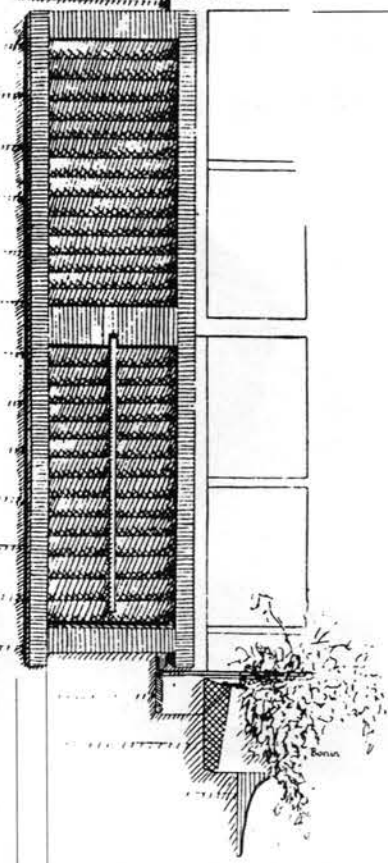
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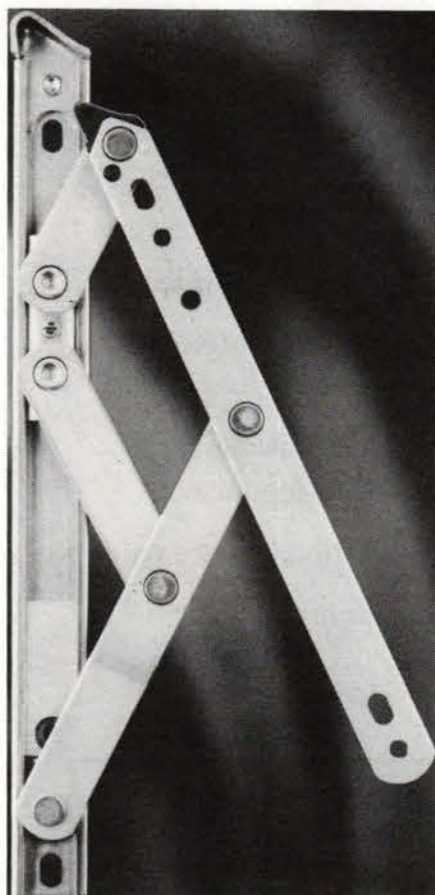
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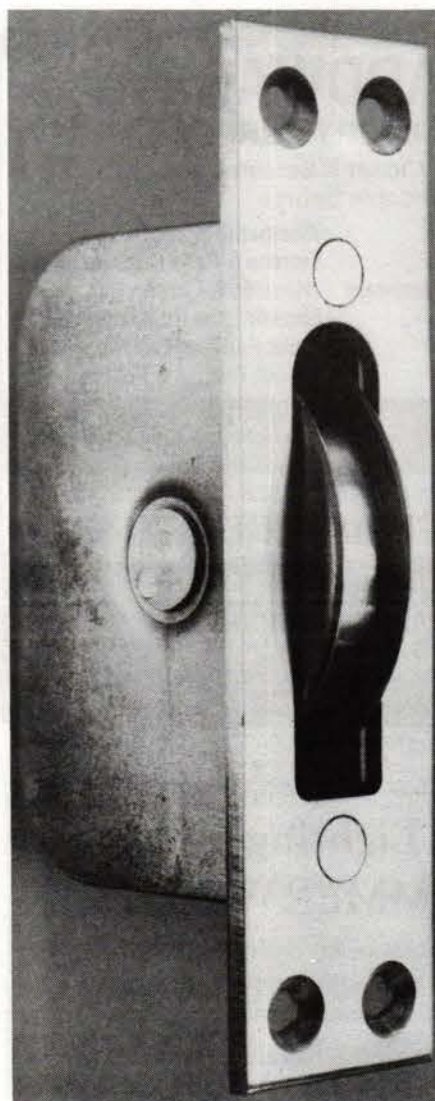
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Main St., Meredith, NH 03253 (603) 279-7352
Metro West Plaza, Rt. 20, Marlboro, MA 01752 (508) 485-6721

WINDOW HARDWARE PORTFOLIO

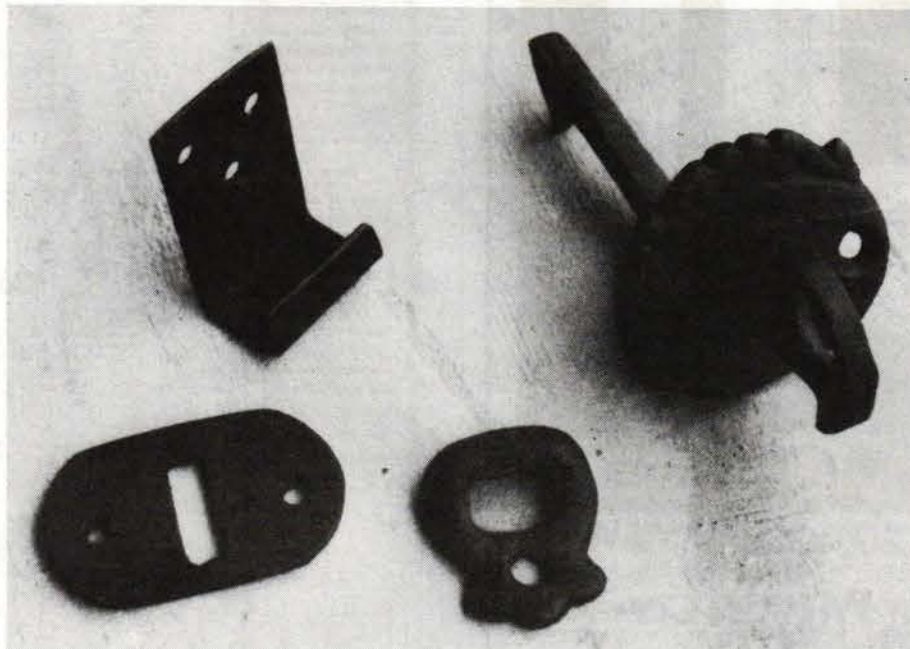
For more information on these companies, consult the SourceList on page 68.



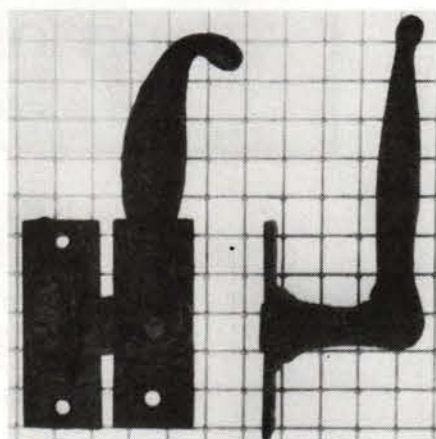
A 4-bar friction hinge from BRONZE CRAFT supports projected vents from 10-1/2 to 79 in. H. and weights from 82-220 lbs. It also supports casement vents 10-1/2 to 33 in. and weights from 84-103 lbs. Other features: Stainless steel slide mechanism, concealed nylon wear strip, and a built-in, non-removable variable stop to comply with child safety guidelines. Write in No. 838



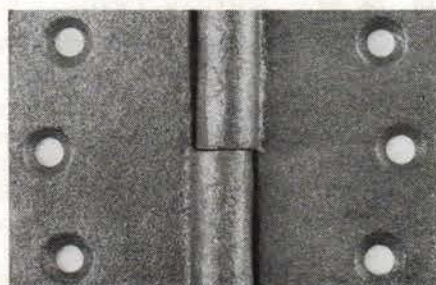
WALTER E. PHELPS COMPANY offers this solid-brass and steel sash pulley in both plain and ball-bearing models for use in historic preservation installations, high-end residential projects, and government and public buildings. Write in No. 595



Styled in the Victorian tradition, this reproduction cast-brass window shutter latch set has an antique black finish. S. KAYNE BLACKSMITH



This casement fastener, shown above straight on and in profile, is from MAGUIRE IRON CORP. Write in No. 760



This cast-iron shutter hinge is part of a family of hardware manufactured by BEECH RIVER MILL CORP. to accommodate their large selection of traditional shutters. Write in No. 411



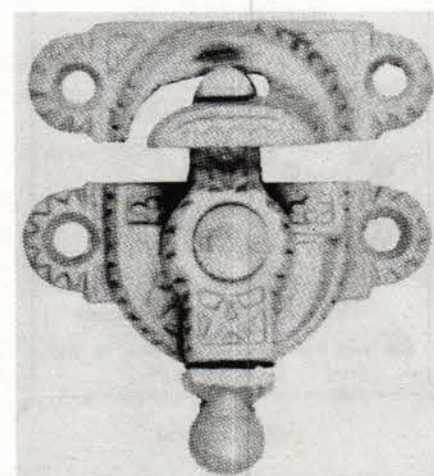
This shutter hinge is made with a curved offset so the shutter clears the window. This one is reversible and measures 3 in. x 5 in. ACORN FORGED IRON Write in No. 169



Iron and steel telescopic curtain rods are based on traditional styles and finish. STEPTOE & WIFE Write in No. 47



This decorative sash lock is from HARDWARE PLUS. Write in No. 652



One of BALL & BALL's many styles of window hardware, this Victorian cast-iron sash lock (#V150-225) measures 2-1/2 in. W. and requires a 7/8 in. width on the upper sash for mounting. Write in No. 293

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**SPECIALTY GLASS
& GLAZING**

**special
report**

Uncommon Glass — Hardly a Thing of the Past

The following *SourceList* (page 74) on Specialty Glass and Glazing is an important supplement to our section on Historic Windows. We have endeavored to supply our readers with a range of manufacturers, contractors, and studios geared to the particular needs of professionals involved in window restoration.

You'll find sources for everything from hand-blown "antique" glass to a design fabricator specializing in photo-mechanical sandblasting. We are also pleased to be able to offer sources for curved or "slumped" glass, which is getting harder and harder to find and, unfortunately, afford. California Glass Bending Corp. (see *SourceList* for contact information) is a major source for the

bent glass used in everything from display cabinets to the 1/4 in. bronze reflective glass on an undulating curtain wall. The company has thousands of steel molds which it uses to make work in all radii. All work is custom and takes three to four weeks. While bent glass is at least four times as expensive as flat glass, there's simply no suitable alternative for replacing a broken pane in a curved double-hung sash on a Victorian turret. Bent glass also offers myriad design possibilities that are often not considered in this day and age of mass produced float glass, including applications that require laminated safety glass and insulated glass. — SG

SPECIALTY GLASS & GLAZING PORTFOLIO

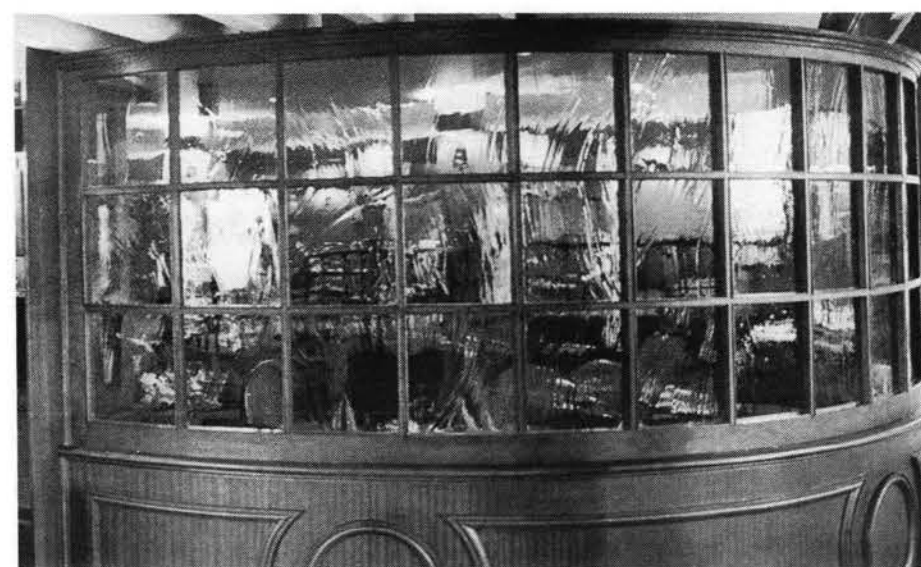
For more information on these companies, consult the SourceList on page 74.



WOOD WINDOW WORKSHOP produced these custom mahogany French casements with true divided lites and single pane restoration glass. They feature 7/8 in. muntins, solid-brass hardware, and bronze interlocking weatherstripping. Write in No. 964



The window wall in this whirlpool room features beveled glass windows by MANUFACTURERS GLASS, LTD.



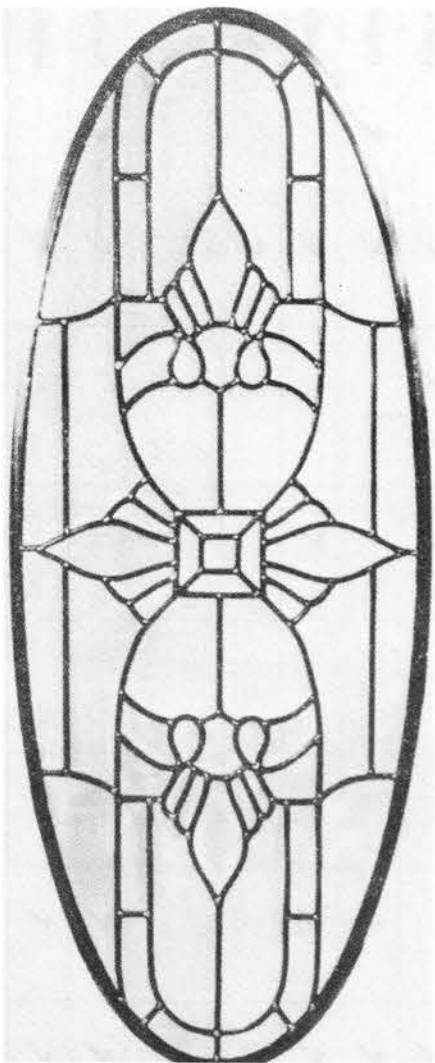
The lites in this curved room divider are made of "Antique Curious," a deeply incised patterned glass. Each piece is individually handmade and has an irregular non-repeating pattern. Available from HOLLANDER GLASS CENTRAL.



"Restoration Glass," from BENDHEIM GLASS CO., has the surface imperfections of handmade glass — making it a popular choice for windows in 18th- and 19th-century buildings. Write in No. 241

SPECIALTY GLASS & GLAZING PORTFOLIO

For more information on these companies, consult the SourceList on page 74.



"Monico," by BEVELED GLASS WORKS, is a 3/4 in. glue chip bevel glass door accent. Write in No. 48



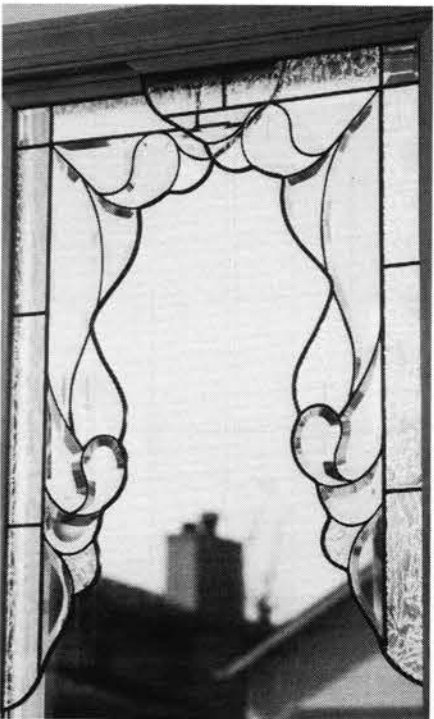
Handmade, bent-glass revolving door enclosure by CALIFORNIA GLASS BENDING. Write in No. 869



ROHLF'S STUDIOS fabricated and installed over 60 custom, leaded-glass insulated windows, using clear and antique glass for this residence in Montauk, Long Island, NY. Write in No. 624



Brilliant wheel-cut door panel by ANDREAS LEHMANN STUDIOS. Write in No. 473



ART & ARCHITECTURAL GLASS produces removable stained/beveled glass decorative features called "Window Corners." Write in No. 888



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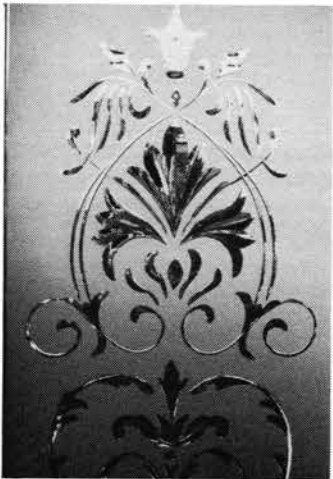
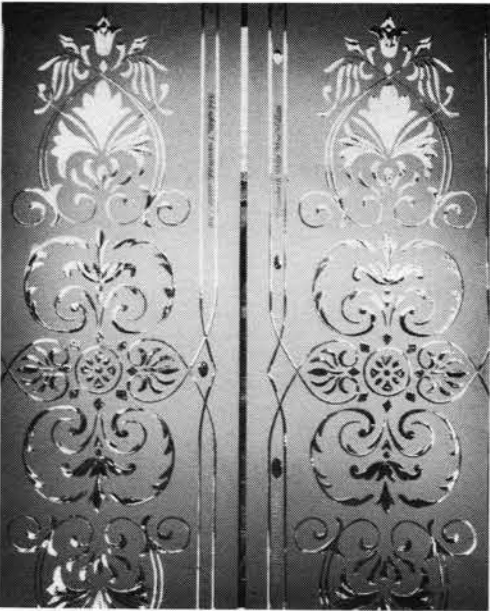
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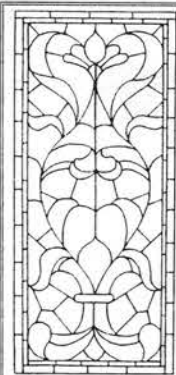


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TRADITIONAL BUILDING's

SPECIALTY GLASS & GLAZING SourceList

CSI# 12170

COMPILED BY SHARON GARBE

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Alter Design, Inc. 6 Pumpkin Pine Rd., Dept. TB Natick, MA 01760 508-653-7399	Custom sandblasted and carved glass and mirrors for restoration or new construction. Safety glass and insulated units available.	Free										✓				✓	
Art & Architectural Glass 9130 S.W. Coral St., Dept. TB Portland, OR 97223 503-245-3320	Designers and fabricators of custom art glass installations, including entryways, skylights, cabinet doors, and screen and room dividers. Also, creators of "Window Corners" — removable art glass panels.	Free Write in No. 888	✓	✓		✓			✓	✓	✓	✓	✓	✓	Fused, stained & leaded	✓	✓
Bendheim Glass Co. 61 Willett St., Dept. TB Passaic, NJ 07055 800-221-7379, 201-471-1733	Offers a mouth-blown glass resembling glasses made before the advent of modern window glass. Slight distortions, occasional pits and imperfections make it ideal for restoration work. Available in 3 varieties: Light, full, and UV.	Free Write in No. 241	✓	✓		✓				✓	✓						
Beveled Glass Works, Inc. 23715 W. Malibu Rd., Ste. 351, Dept. TB Malibu, CA 90265 800-421-0518, 310-456-3201	Supplies handmade leaded, beveled glass for doors, windows, room dividers in both standard (stock) or custom sizes. Also, doors and entryways in oak, mahogany, Douglas fir, and maple.	Free Write in No. 48									✓		✓				
Blenko Glass Co. P.O. Box 67, Dept. TB Milton, WV 25541 304-743-9081	This 101-year-old company produces "antique" hand-blown window glass with waves, seeds, or cords; hand-spun rondels and bull's eyes; vault lights, Dalles de Verre, and small run castings to 5 in. thickness.	Free Write in No. 787	✓	✓													
California Glass Bending 320 East B St., Dept. TB Wilmington, CA 90744 800-223-6594, 310-549-5255	Company fabricates traditional bent glass in almost any shape for windows, as well as curio cabinets, cases, and the like.	Free Write in No. 869								✓						✓	
Elmont Glass Co., Inc. 2145 Jericho Turnpike, Dept. TB New Hyde Park, NY 11040 516-248-8860	All phases of glass, glazing, mirrors, plastics, and architectural metals. Specialty glass of every description. Applications include entrances, canopies, soffits, railings, and glass ceilings.	Free							✓			✓	✓			✓	✓
Great Panes Glassworks 2861 Walnut St., Dept. TB Denver, CO 80205 303-294-0927, 800-338-5408	Specializes in photo-mechanical decorative sandblasting on glass (booth dividers, doors, atriums, and sidelights) mirrors, tile, and stone. From simple designs to ornate and complex sculpting, frosting, and shading.	Free Write in No. 918							✓	✓	✓	✓	✓	✓	Deep sculpted, frosted, gilding, painting	✓	✓
Hollander Glass Central, Inc. 1505 Centre Cir., Dept. TB Downer's Grove, IL 60515 800-323-4293, 708-629-7221	Wholesale distributor of an exceptionally large array of specialty glass, including antique, colored (over 2,000 shades), and textured/patterned in clear and translucent, blown, and stained varieties.	Free	✓	✓	✓	✓	✓	✓			✓						
Lyn Howe Architectural Glass 5753 Landregan St., Dept. TB Emeryville, CA 94608 510-601-0107	Full-service studio specializing in leaded, stained glass and etched glass for architectural decoration, including windows, doors, room dividers, and skylights.	Free										✓	✓		Stained and leaded designs	✓	
Lehmann Studios 1793 12th St., Dept. TB Oakland, CA 94607 510-465-7158	Custom wheel-cut art glass for residential and commercial interiors.	Free Write in No. 473												✓		✓	
Manufacturers Glass, Ltd. 650 Reed St., Dept. TB Santa Clara, CA 95050 408-748-1806	An art glass studio offering a full line of custom cabinet, door, and entry glass. Offers unique decorative methods such as back-lit mirror work and edge-lit etched or carved.	Free	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Stained works with lead, copper, brass, or zinc came	✓	✓
Reflection Studios 1418 62nd St., Dept. TB Emeryville, CA 94608 510-652-4884	Studio produces exceptional stained glass reproductions, original work, and museum-quality restoration. It is a licensed glazing contractor with numerous references for large-scale commercial, state, and Federal projects.	Free Write in No. 793								✓		✓	✓	✓	Stained & leaded, painted, condition reports	✓	✓
Rohlfs Studio, Inc. 783 S. Third Ave., Dept. TB Mount Vernon, NY 10550 800-969-4106, 914-699-4848	In business for over 70 years, this studio produces and conserves stained, leaded, and specialty glass windows nationwide. Steel casement and insulated leaded glass; also, antique lead available.	Free Write in No. 624	✓								✓	✓	✓		Stained & leaded	✓	✓
Victor Rothman Stained Glass 1468 Midland Ave., #5A, Dept. TB Bronxville, NY 10708 914-776-1617	Specializes in museum-quality restoration of art glass, especially works by LaFarge, Tiffany, and Wright. Also offers original designs as well as protective glazing and consultation.	Free	✓	✓	✓					✓	✓	✓	✓		Stained & leaded, kiln painted, condition reports	✓	✓
Rudy Art Glass Studio 15 E. Philadelphia St., Dept. TB York, PA 17401 717-843-3345	Specialists in fabricating decorative art glass that meets safety codes. Samples available to architects and designers. Products include art glass shelves, dividers, lighting fixtures, and entryways.	Free	✓	✓	✓	✓					✓	✓	✓		Laminated glass	✓	✓
Venturella Studio 32 Union Sq. East, Ste. 1110, Dept. TB New York, NY 10003 212-228-4252	Restoration and conservation of museum collections, including Medieval windows, and works by Tiffany, LaFarge, and Wright. Consults on all aspects of conservation; design and fabrication of new works.	Free	✓	✓	✓	✓					✓		✓		Stained & leaded	✓	✓
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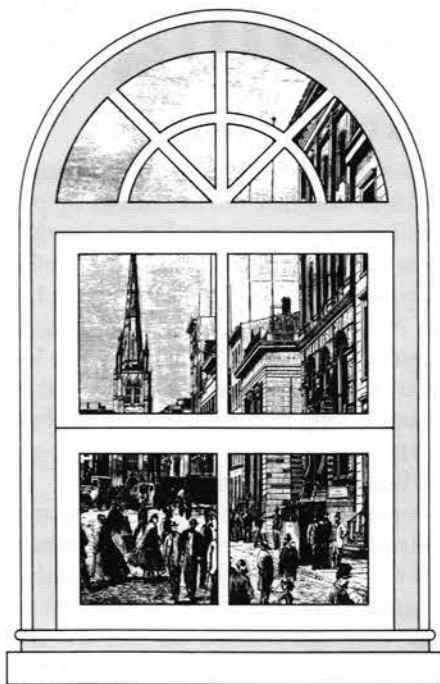


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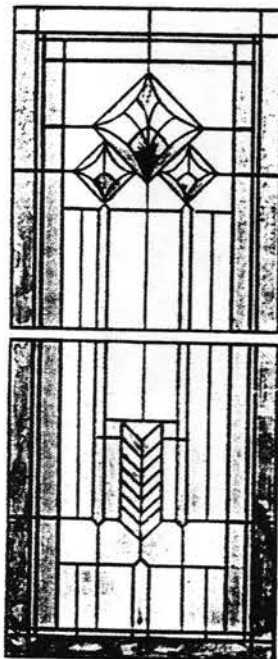
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WRITE IN NO. 869

WALL & CEILING DECORATION

special
report

Decorating Walls & Ceilings

BY SHARON GARBE

Late Victorian artisans and manufacturers engaged in combat against the visual tedium of domestic environments by producing complex wall and ceiling treatments: Dados, borders, fields, friezes, and panels; paint schemes; stencilling and other decorative paint techniques; tapestries, embossed metal, Lincrusta and Anaglypta; and ornament made out of plaster, compo, papier mache, wood, and metal. Stylistically, the Victorians drew inspiration from across the history of human decorative production, borrowing principles and motifs from Egypt, Persia, Turkey, Japan, China, etc., as well as past eras closer to home: Celtic, Medieval, Elizabethan, etc.

While interior decoration had been a preoccupation of the wealthy, the industrial revolution made the decoration of houses affordable for a great many more people. Along with machine-made ornaments and machine-printed papers, paint technology was also advancing. For the first time, ready-mixed paints were available and offered an ease and diversity of choice.

The Present-Day Subculture of Historic Specialty Paints

Prior to the manufacture of ready-mixed paints in the 1870's, oil- and water-based paints such as casein and distemper were generally mixed on site. Making and using oil paints was expensive; plaster walls had to be smooth finished and completely dried for a year.

Water-based paints, on the other hand, could be used over new and more cheaply made walls; they also required fewer coats. Water-based paints that use various mediums have been in use for thousands of years. The term distemper refers to a material in which pigment and water is bound with a glue derived from either animal hide or fish. Casein paints contain milk protein used as a binder for pigment and water. Both are long lasting, as evidenced by their use in prehistoric cave paintings and objects found in Tutankhamen's tomb. Casein, which also contains lime for durability, was widely used in America both for furniture and interior walls. The palette is generally earth tones and the finish is a flat matte.

Today, casein paint is still made from scratch by decorative painters and others adept at following recipes. For those of us who aren't, it is available commercially from The Old Fashioned Milk Paint Co., Inc. Charles Thibeau, its president, became interested in casein years ago while trying to find authentic finishes for the reproduction furniture he was making. Unable to find any commercially made milk paint, he began studying old formulas and recipes. Six months and 142 experiments later, he wrote "Eureka!" across his log book and went into production. His company is the only manufacturer of milk paint in the U.S. Besides appealing to antique restorers and preservationists, his products have been embraced by the Healthy House Movement because they are non-toxic.

The historic preservation movement has raised the consciousness of the larger paint manufacturers, many of whom now offer paint charts that approximate historic colors. Then there are the companies that go a few steps further and offer authentic formulas. Historic Paints, Ltd., is a new entry into the field, but one with an impressive background. Founded by Matthew Mosca and Chris Ohrstrom, it offers a full line of restoration paints focused on the years from 1620-1860. The paints replicate the colors and particular textures of the pure linseed oil and pigment paints of those periods. Substitutes for toxic substances like arsenic and lead are used. The company is also currently developing a line of casein paints.

Two other companies that stand out from the crowd of commercially produced paint products are Stulb's Old Village Paint and Fine Paints of Europe. Stulb offers a line of high-quality oil-based paints that reproduce historic American colors for indoor and outdoor application. The company's "Buttermilk" paint colors are not casein, but reproduce traditional Colonial milk paint colors.

Fine Paints of Europe imports HASCO paints and finishes from Holland. The HASCO product line includes a rich palette of oil-based enamels in various finishes, and oil-based house paints specifically formulated to protect wood while remaining elastic over a long period of time. The high-quality ingredients used produce a long lasting, durable surface. Compared to latex and alkyd paints, which are less expensive to buy but do not last as long, the annualized cost of using HASCO is a better bargain.

Contact information for these and 40 other companies that offer wall and ceiling decoration products can be found on the *SourceList* on pp. 78-82.

Preservation Briefs 34: Applied Decoration for Historic Interiors - Preserving Composition Ornament

In this wonderful brief about composition ornament, Jonathan Thornton and William Adair make mention of the secrecy that sometimes surrounds "Compo," or as it is also sometimes referred to, plaster, French stucco, and Swedish putty. This 16-page document is a must for anyone whose dimensional ornamentation (whether on walls, ceilings, furniture, frames, or various millwork) is in need of repair. It offers guidance for distinguishing between compo, plaster, stucco, and papier mache; it explains the fabrication process - from the making of originals for casting and the various materials used for molds to the best methods for restoring and refinishing compo (e.g., "Do not use caustic strippers; they dissolve compo."). There's also a brief but informative historical account of the material and designers and cultures that used and appreciated it. Order this brief by its stock number, 024-005-01137-4, and send check or money order for \$1.50 to: Superintendent of Documents, Government Printing Office, P.O. Box 371954, Pittsburgh, PA 15250-7954.

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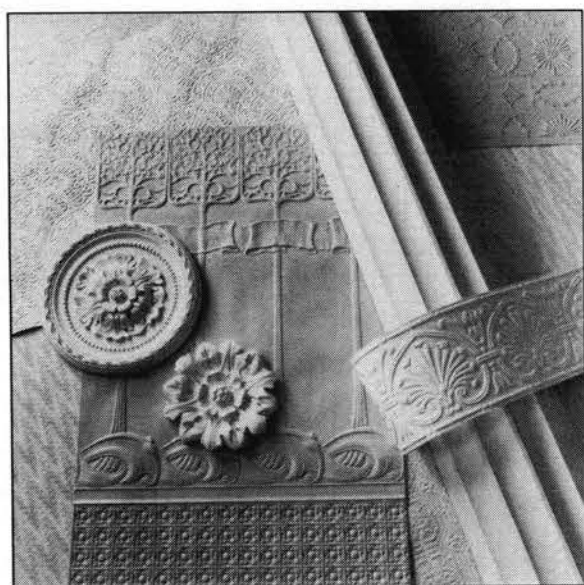
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WRITE IN NO. 723

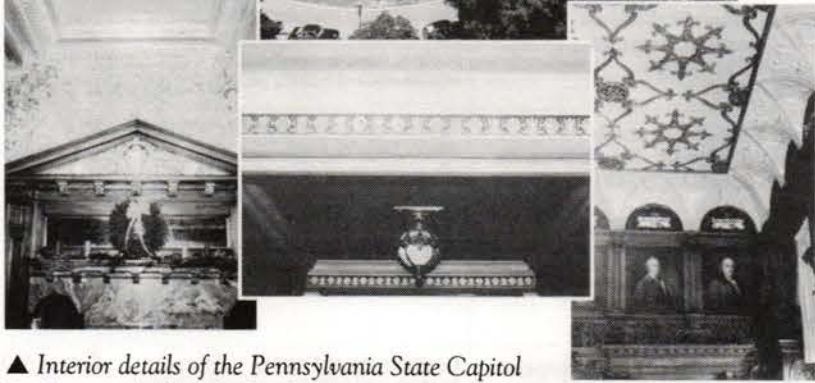



Albert Michaels Conservation, Inc.

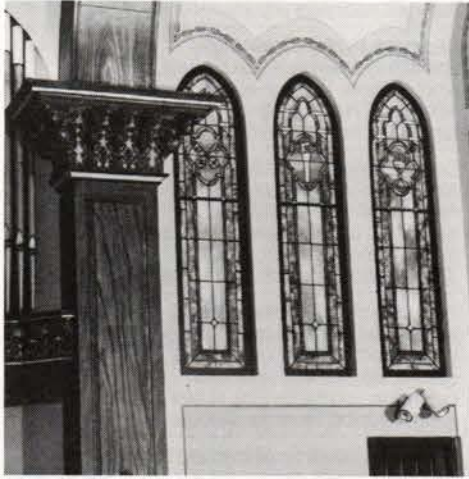
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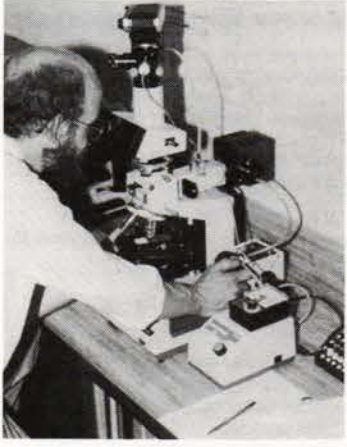
...by offering analytical investigation and research, combined with artistic interpretation by a highly skilled pool of craftsmen and artists brought together with sound project management and finalized with complete documentation.



▲ Interior details of the Pennsylvania State Capitol Building, including the Lt. Governor's Reception Office, Public Corridors, and the Governor's Private Office



◀ Interior details of Bethany Lutheran Church, Altoona, Pa. Architectural niches are painted to appear as stained glass windows with pilasters and beams receiving faux wood treatments



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- original artwork
- ornamental plaster
- painted surfaces
- interior wood finishes
- interior marble surfaces
- historic furniture
- metal light fixtures and appointments
- leaded glass windows


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Dining Room

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WRITE IN NO. 836

COMPILED BY SHARON GARBE														
COMPANY	SPECIALTY	Literature	Wallcoverings	Historical Periods	DECORATIVE PAINTING TECHNIQUES					Historical Paint Analysis	Paint Conservation	Other Services	Paints & Materials	Plaster Wall Repair
					Stencilling	Gilding	Glazing	Marbleizing	Trompe L'Oeil					
A.A. Abbingdon Affiliates, Inc. 2149-51 Utica Ave., Dept. TB Brooklyn, NY 11234 718-258-8333	Company carries 25 original designs of tin panels for ceilings and walls, and 13 cornice styles. Finishes: Painted or pre-painted white, brass- or copper-plated, and chrome.	Free Write in No. 892	Pressed-metal wall & ceiling panels	Victorian, T-of-C										
Albert Michaels Conservation, Inc. 1116 N. Third St., Dept. TB Harrisburg, PA 17102 717-232-9592	Comprehensive conservation and restoration capabilities: Analytical investigation, conservation, and restoration by skilled artisans, reproductions of elements, site management, and project documentation.	Free Write in No. 836	Embossed wall coverings		✓	✓	✓	✓	✓	✓	✓	Murals, furniture restoration, design services		✓
American Academy of Dec. Finishes 14255 N. 79th St. #10, Dept. TB Scottsdale, AZ 85260 602-991-8560, 800-336-6011	An educational organization that offers thorough and advanced techniques for wall finishes and duplication of Old World effects. Environmentally safe water-based mediums are used. AADF also sponsors restoration trips to Europe.	Free Write in No. 49				✓	✓	✓	✓				Water-based painting materials	
Bassett & Vollum Wallpapers 915 W. Summit St., Dept. TB Maquoketa, IA 52060 319-652-3605	This company manufactures historic and current hand-printed wallpapers and borders; custom coloring; also reproduction of historic papers.	Free Write in No. 253	Wallpapers & borders, custom duplication	Victorian, Arts & Crafts, T-of-C										
Douglas Bouman Associates 3485 Sacramento Dr., Ste. H, Dept. TB San Luis Obispo, CA 93401 805-541-6281	The firm has executed many decorative interior projects around the world. It offers diverse artistic approaches to architectural painting, as well as screens and furniture. Restoration services.	Free Write in No. 125			✓	✓	✓	✓	✓		✓	Murals		
Boussac of France, Inc. 979 3rd Ave., Dept. TB New York, NY 10022 212-421-0534	Offers classic French fabrics, wall coverings, and borders.	Free	Wallpapers & borders	European Classical										
Bradbury & Bradbury Art Wallpapers P.O. Box 155, Dept. TB Benicia, CA 94510 707-746-1900	Coordinated hand-printed wallpapers, borders, and ceiling ornaments in historic styles (1860-1918): Victorian Collection and Edwardian/Arts & Crafts Collection. In-house design service available. Authentic colorways and adaptations.	Catalog \$10	Wallpapers, borders, roomsets	Victorian, Arts & Crafts										
Michael Brandow Decorative Painting 182 W. 4th St., #11, Dept. TB New York, NY 10014 212-675-5147	Decorative painter offering highly accurate recreations of stone, wood, and other surfaces. Works in all styles and all techniques. Has experience in doing large-scale work for churches.	Free			✓	✓	✓	✓	✓			Glass painting		
J.R. Burrows & Co. P.O. Box 522, Dept. TB Rockland, MA 02370 617-982-1812	Company offers William Morris, Axminster and Wilton carpet designs. Also, reproduction English Victorian wallpapers, friezes, ceiling papers, and printed fabric designs by Candace Wheeler; design consultation services.	Free Write in No. 693	Wallpapers, borders, roomsets, custom duplication	Victorian										
John Canning & Co. P.O. Box 822, Dept. TB Southington, CT 06489 203-621-2188	The scope of services the company provides includes field research, paint analysis, consultation, assessment, documentation of original interior decoration, and the creation of new designs suitable for period interiors.	Free Write in No. 510			✓	✓	✓	✓	✓	✓	✓			
Chelsea Decorative Metal Co. 9603 Moonlight Dr., Dept. TB Houston, TX 77096 713-721-9200	Pressed-tin panels for ceilings and walls. Decorative sheets come in 2 X 4 ft. sections; cornices in 4 ft. lengths. Styles range from Victorian to Art Deco, with a variety of repeat patterns. Shipped anywhere.	Free Write in No. 19	Pressed-metal wall & ceiling panels, Victorian, T-of-C											
Chicago Metallic 4849 S. Austin Ave., Dept. TB Chicago, IL 60638 708-563-4600	Suspended ceiling systems and decorative ceiling products. 10 styles of lay-in or nail-up panels, uncoated for on-site finishing. Pre-painted panels, perforations, special hole cutting, and other services are available.	Free Write in No. 609	Pressed-metal wall & ceiling panels	Victorian, T-of-C										
Classic Ceilings 902 E. Commonwealth Ave., Dept. TB Fullerton, CA 92631 800-992-8700	Extensive line of tin ceilings, including cornices and moldings. Imports embossed, paintable Anaglypta and durable Lincrusta wall coverings in a variety of patterns. Both are suitable for commercial installation.	Free Write in No. 240	Pressed-metal wall & ceiling panels, embossed wall coverings	Victorian, T-of-C										
Conrad Schmitt Studios, Inc. 2405 S. 162nd St., Dept. TB New Berlin, WI 53151 800-969-3033, 414-786-3030	Experienced in major interior decoration and restoration projects, including theaters and religious buildings. Offers field research, paint analysis, consultation, documentation; restoration and conservation of murals and art glass.	Free Write in No. 804			✓	✓	✓	✓	✓	✓	✓			
Cover Age, Inc. P.O. Box 8498, Dept. TB Warwick, RI 02886 401-738-1197	Manufacturers of 2 kinds of paintable wallpapers: CoverAge is a textured woodchip-based paper (7 papers) and Novaboss is an embossed paper (5 papers). Both offer an easy means of hiding wall and surface defects.	Free	Embossed wall coverings	Victorian										
Crown Corp., NA 1801 Wynkoop St., Ste. 235 Denver, CO 80202 800-422-2909, 303-292-1313	Offers Anaglypta and Lincrusta — embossed relief wall/ceiling coverings which can be painted — plus a variety of architectural moldings, columns, and ornamentation.	Free Write in No. 506	Wallpapers, borders, embossed wall coverings, dados, friezes	Victorian, Arts & Crafts, T-of-C										
Entasis 109 E. Patrick St., Dept. TB Frederick, MD 21701 301-607-0152	Studio offers a wide range of decorative painting techniques, including Trompe L'Oeil, marbleizing, faux bois, and customized finishes for individual jobs.	Free			✓	✓	✓	✓	✓					
EverGreene Painting Studios 635 W. 23rd St., 4th Fl., Dept. TB New York, NY 10011 212-727-9500	Painting studio with extensive experience in paint restoration, as well as design and execution of original projects. Paint research, analysis, and documentation. Has handled many major projects. Also fabricates scagliola work.	Free Write in No. 246			✓	✓	✓	✓	✓	✓	✓	Murals, scagliola		

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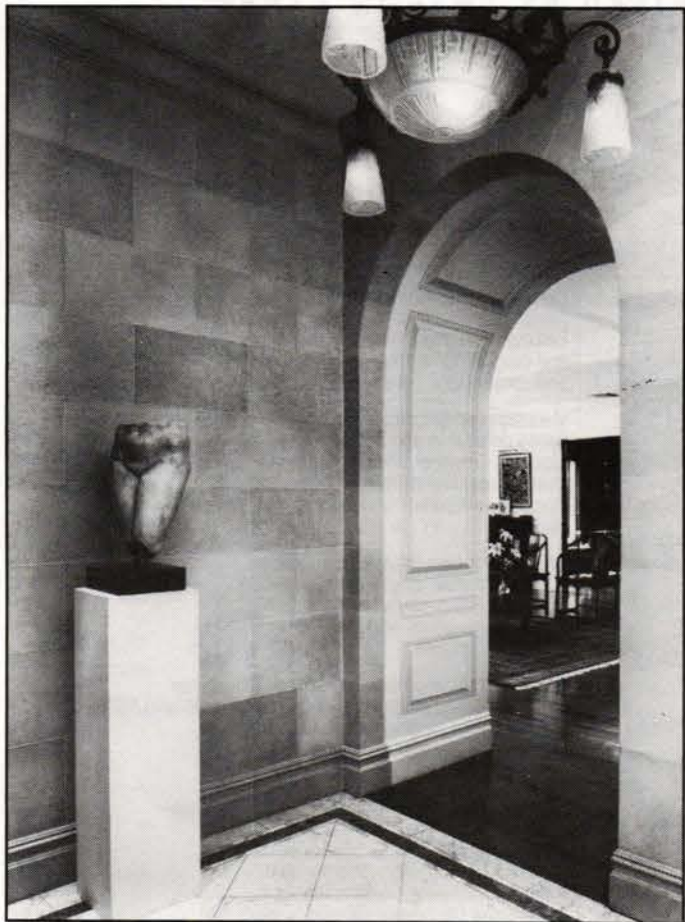
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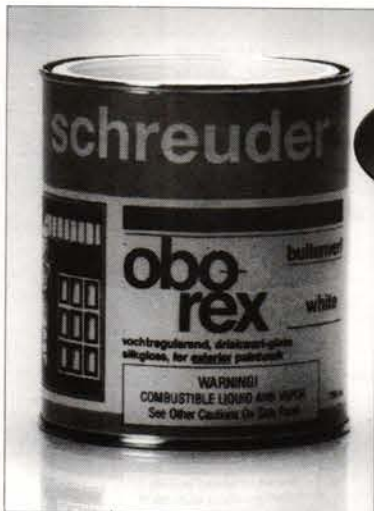
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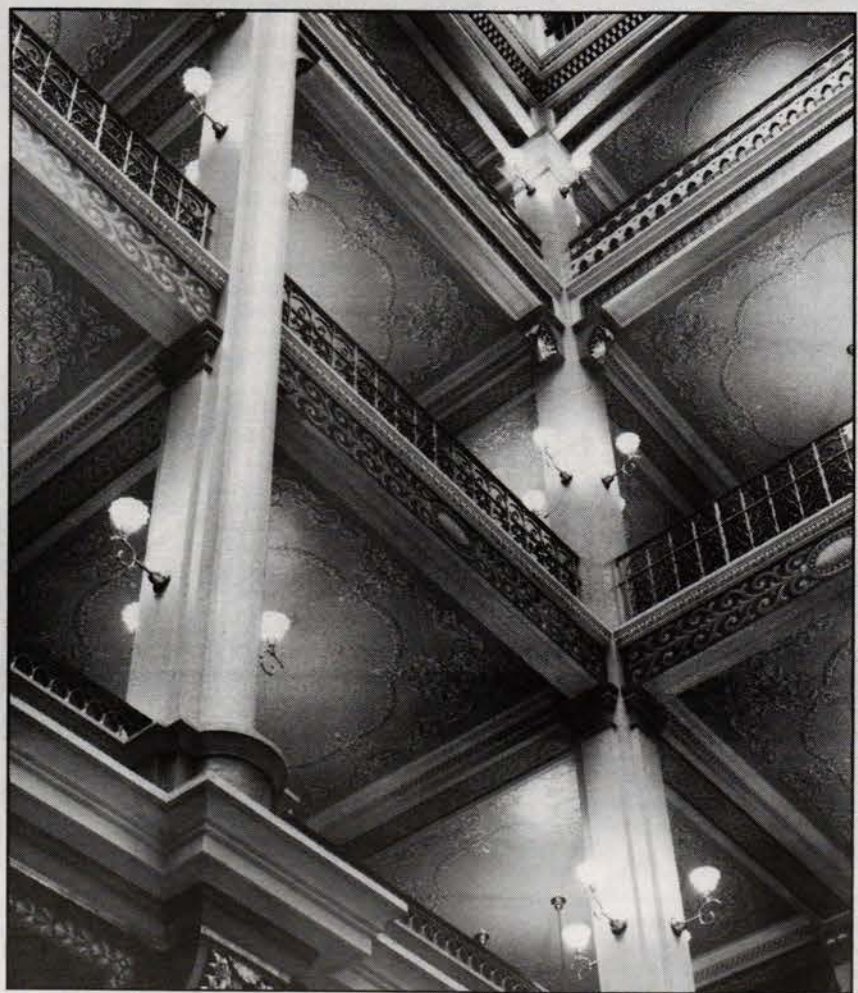
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COMPANY	SPECIALTY	Literature	Wallcoverings	Historical Periods	DECORATIVE PAINTING TECHNIQUES					Historical Paint Analysis	Paint Conservation	Other Services	Paints & Materials	Plaster Wall Repair
					Stencilling	Gilding	Glazing	Marbleizing	Trompe L'Oeil					
Farancz Painting Conservation Studio 361 W. 36th St., Dept. TB New York, NY 10018 212-563-5550	Conservation of murals, decorative wall painting, easel paintings, and sculpture. Emphasis on preserving original surface and integrity. Offers technical analysis and conservation bid specs.	Free								✓	✓			
Faux Effects 3435 Aviation Blvd., Dept. TB Vero Beach, FL 32960 407-778-9044	Manufacturer and supplier of water-based decorative and faux finishing products. Designer and architectural finishes from Old World to contemporary. Company also offers professional classes in FL, NY, and CA.	Free <i>Write in No. 469</i>					✓	✓				Classes	Water-based painting products	
Fe Fi Faux, Inc. 337 S. Davie St., Dept. TB Greensboro, NC 27403 910-272-3289	Professional faux finishers for home or business, specializing in marbling, wood graining, gilding, and many other faux finishes. Also offers workshops on various techniques.	Free <i>Write in No. 449</i>				✓	✓	✓				Classes		
Fine Paints of Europe P.O. Box 419, Dept. TB Woodstock, VT 05091 800-332-1556, 802-457-2468	Exclusive U.S. importer/distributor of high-quality oil-based paints from Holland. Full line of finishes ranging from matte wall and ceiling paint to brilliant gloss enamel. Custom tinting.	Free <i>Write in No. 694</i>											Oil-based paints, custom tinting	
The Finishing School, Inc. 120 Woodbine Ave., Dept. TB Northport, NY 11768 516-262-0058	Offers classes in decorative finishing and restoration, and the latest water-based technology. Authors of a book and companion video titled, "Professional Painted Finishes: A Guide to the Art & Business of Decorative Painting."	Free				✓	✓	✓	✓			Graining, classes		
Flexi-Wall Systems P.O. Box 89, Dept. TB Liberty, SC 29657 800-843-5394, 803-843-3104	This company manufactures plaster-impregnated jute and canvas wall and ceiling coverings for defective surfaces and for lead-based paint encapsulation.	Free	Wall-repair covering											✓
Helen Foster Stencils 71 Main St., Dept. TB Sanford, ME 04073 603-286-7214	Designer and supplier of Arts & Crafts precut stencils for borders and friezes. Mid- and large-scale patterns include a range of stylized botanicals and geometrics.	Send \$4 for catalog		Arts & Crafts	✓								Precut stencils, Paintstiks & stencil brushes	
Garland Guild, Inc. 711 Dorman St., Dept. TB Indianapolis, IN 46202 317-638-0553	Specializes in the 'recovery' of architectural painting, from documentation and conservation to restoration and replication. Also offers mural and period designs and finishes.	Free			✓	✓	✓	✓	✓	✓	✓	Graining, crackle, textured finishes		
Mark Giglio Studios 233 Elizabeth St., #21, Dept. TB New York, NY 10012 212-431-8926	Murals, Trompe L'Oeil, and faux finishes executed with creativity and care, on site or in the studio.	Free			✓	✓	✓	✓	✓	✓	✓	Murals		
Gold Leaf Studios P.O. Box 50156, Dept. TB Washington, DC 20091 202-638-4660	Conservation of architectural gilding and architectural elements. Fabrication of architectural elements and gilding.	Free <i>Write in No. 854</i>				✓						Conservation		
Historic Paints, Ltd. Burr Tavern, Rt. 1, Box 474, Dept. TB E. Meredith, NY 13757 607-432-7009	Historically accurate paints using authentic pigments and vehicles. Linseed oil paint colors include Venetian red, yellow ochre, Spanish brown, minium, burnt umber, massicot, verdigris, terre verte, and more.	Free <i>Write in No. 453</i>											Linseed oil paints, casein paints	
Jermann Painting Studio P.O. Box 245, Dept. TB Sparkill, NY 10976 914-359-7535	Studio provides all types of faux and decorative paint finishes, and specializes in realistic murals.	Free			✓	✓	✓	✓	✓			Murals		
Maer-Murphy, Inc. 429 W. 53rd St., Dept. TB New York, NY 10019 212-265-3460	Design, surface preparation, and decorative finishes for residential, religious, and corporate spaces. Also, ornamental plaster design and restoration.	Free			✓	✓	✓	✓	✓	✓	✓			✓
Master Of Plaster Finishing Systems, Inc. P.O. Box 304, Dept. TB Essex, NY 12936 800-352-5915	Provides a premixed, wet-finish 3-coat plaster system which gives walls and ceilings a hard-polished surface. Other division offers architectural and ornamental plaster castings.	Free <i>Write in No. 875</i>											Seminars, specs, consulting	✓
Carol Mead Wallcoverings 434 Deerfield Rd., Dept. TB Pomfret Center, CT 06259 203-963-1927	Twenty-five richly colored T-of-C handprinted papers, borders, and friezes. American styles, Voysey adaptations, textures, and stripes in odor-free, environmentally friendly inks; historic reproduction service.	Free <i>Write in No. 628</i>	Wallpapers, borders, roomsets, custom duplication	Victorian, Arts & Crafts, T-of-C										
Paul Montgomery & Assoc. 4662 Ashton Rd., Dept. TB Sarasota, FL 34233 813-925-4000	Custom decorative art and painting for public, commercial, and residential areas, including consultation, conceptual sketches and samples, full-size production, and installation.	Free <i>Write in No. 718</i>	Wallpapers, borders, roomsets		✓	✓	✓	✓	✓			Murals on canvas or on site		
Matthew J. Mosca/Historical Paint Research 216 E. University Parkway, Dept. TB Baltimore, MD 21218 410-466-5325	Historic paint research and lab analysis. Preparation of specs for execution of research projects. Consultation on cleaning and conservation of special architectural finishes.	Free								✓				
Mount Diablo Handprints, Inc. P.O. Box 726, Dept. TB Benicia, CA 94510 707-745-3388	Manufacturers of historically accurate handprinted wallpapers using water-based ink. Over 100 patterns in the current collection: Victorian, Anglo-Japanese, and Arts & Crafts.	Free <i>Write in No. 723</i>	Wallpapers, borders, custom duplication											
W.F. Norman Corp P.O. Box 323, Dept. TB Nevada, MO 64772 800-641-4038	Major fabricator of sheet-metal ornaments, including pressed-metal wall and ceiling panels. Over 140 patterns in either steel or copper, using original 80-year-old dies.	Free <i>Write in No. 52</i>	Pressed-metal wall & ceiling panels											

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3. Apply fiberglass mat to wet surface.



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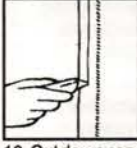
7. Apply second coat of saturant to wet mat



8. Apply 1st coat of saturant to adjacent area



9. Apply mat to 2nd area, overlapping by 1"



10. Cut down center of overlap (both layers)



11. Remove mat strips on both sides of cut



12. Apply 2nd coat of saturant (include seam)



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COMPILED BY SHARON GARBE														
COMPANY	SPECIALTY	Literature	Wallcoverings	Historical Periods	DECORATIVE PAINTING TECHNIQUES					Historical Paint Analysis	Paint Conservation	Other Services	Paints & Materials	Plaster Wall Repair
					Stencilling	Gilding	Glazing	Marbleizing	Trompe L'Oeil					
Old-Fashioned Milk Paint Co. Box 222, Dept. TB Groton, MA 01450 508-448-6336	True milk paint, available in 8 colors: Barn red, mustard, buttermilk, bayberry, Lexington green, sea green, federal blue, soldier blue, slate, oyster white, pitch black. Just add water and mix.	Free											Casein paints, crackle finish	
Optic Nerve Art Corp. 1110 Chambers Rd., Dept. TB Columbus, OH 43212 614-488-1994	Interior/exterior decorative painting and faux finishes, murals, Trompe L'Oeil work, lettering, frescoes, sculpture, frame reproductions, manufactures custom wallcoverings.	Free Write in No. 842	Wallpapers, borders, roomsets, custom duplication	Early American, Victorian, Arts & Crafts, T-of-C, Classical	✓	✓	✓	✓	✓			Lettering, sculpture, frescos, frames		
Joanna Rock Wallpapers 85 Lefurgy Ave., Dept. TB Dobbs Ferry, NY 10522 914-639-7699	Original, custom hand-blocked wallpapers, hand cut from linoleum tiles and printed on imported English paper.	Free	Hand-blocked wallpapers	Early American, Victorian, Arts & Crafts										
Sepp Leaf Products, Inc. 381 Park Ave. S., Dept. TB New York, NY 10016 212-683-2840	Suppliers of gilding products and tools: Gold leaf in booklets and rolls, imitation gold and aluminum, size, and Kolcaustico, a new water-based Venetian plaster. Also associated with the Center for the Gliding Arts, which offers all levels of gilding courses.	Free Write in No. 288				✓	✓	✓				Classes	Gilding and leafing products	
Specification Chemicals 824 Keeler St., Dept. TB Boone, IA 50036 800-247-3932	Manufacturers of 'Nu-Wal', a system for cracked flat or curved walls, which repairs the damage using a fiberglass mat embedded in a saturant which is applied to walls. Walls may be painted or covered with paper.	Free Write in No. 153												✓
Steptoe & Wife 322 Geary Ave., Dept. TB Toronto CAN., ON M6H2C7 416-530-4200	Carries a variety of period products: Embossed wall coverings, Victorian-styled cast-iron straight and spiral staircases and railings, and iron and steel telescoping curtain rods.	Free Write in No. 826	Embossed wall coverings											
Stroheim & Romann, Inc. 31-11 Thomson Ave., Dept. TB Long Island City, NY 11101 718-706-7000	Company carries traditional wallcoverings with coordinating fabrics including Winterthur and Stately Homes reproduction wallcoverings.	Free	Wallpapers, borders	Early Amer., Victorian, T-of-C, Classical										
Stulb's Old Village Paint P.O. Box 1030, Dept. TB Fort Washington, PA 19034 215-654-1770	This company specializes in historic paints: Old Village linseed oil paints and Williamsburg Buttermilk Paints and Glazes. It is also a source for feathers, combs, and other graining tools.	Free Write in No. 110											Linseed oil paints, glazes, wood stains, tools	
M. Swift & Sons, Inc. P.O. Box 150, Dept. TB Hartford, CT 06141 203-522-1181	Manufactures gold leaf and other precious metals in booklets and rolls.	Free											Gilding and leafing products	
Christian Thee & Associates 6196 Eastshore Rd., Dept. TB Columbia, SC 29206 803-787-1459	Trompe L'Oeil, murals, screens, paintings, and objects for everything from a 46-ft. mural for Trump's Taj Mahal to the windows of Tiffany & Co.	Free		All					✓			Murals		
Thibaut Wallcoverings 480 Frelinghuysen Ave., Dept. TB Newark, NJ 07114 201-643-1118	Historic reproduction wallpapers, borders, and fabrics from existing homes and museums. Designs: Rich florals to Patrician stripes. Prepasted, strippable, and scrubbable.	Free	Wallpapers, borders, fabrics, custom reproductions											
Tuff-Kote Co. 210 N. Seminary Ave., Dept. TB Woodstock, IL 60098 800-827-2056, 815-338-2006	Manufactures an interior and exterior crack-bridging system consisting of an open-weave glass-fiber fabric that is embedded in a high-solids "no sanding" compound. System permits cracks to move without causing cracking or leaks.	Free Write in No. 101												✓
Vander Heyden Woodworking, Inc. 151 W. 25 St., 8th Fl., Dept. TB New York, NY 10001 212-243-0525	Over 500 tapestry reproductions, focusing on designs from the 19th century and earlier. Custom capability, woven and silkscreened tapestries, accessories (tassels, rods, etc.), and pillows.	Free Write in No. 868	Woven and silkscreened tapestries	All										
Victorian Collectibles, Ltd. 845 E. Glenbrook Rd., Dept. TB Milwaukee, WI 53217 414-352-6971	Reproduces wallpapers and ceiling treatments that were made in America from 1850 to 1915. Its 'Brillion Collection' contains the original rolls from which the reproductions are made. Custom duplication service available.	Free flyer Write in No. 525; brochure/samples \$5 each	Wallpapers, borders, roomsets, embossed wall coverings	Victorian, T-of-C								Custom duplication		
Warner Wallcoverings 108 S. Desplaines St., Dept. TB Chicago, IL 60661 312-372-3540	Carries fine wallcoverings, borders, and coordinated fabrics.	Free	Wallpapers, borders, roomsets, embossed wall coverings											
Kenn Wells Painting Studios 223 East 32nd St., Dept. TB New York, NY 10016 212-725-1737	Full-capability decorative arts and design studio experienced in all faux finishes, Trompe L'Oeil, and traditional painted effects. Works on mid- to large-size projects, including residences, restaurants, and hotels.	Free Write in No. 846			✓	✓	✓	✓	✓			Murals		
Zaffle Fine Decorative Painting 2397 Paradise Dr., Dept. TB Tiburon, CA 94920 415-435-8821	Specializes in high-end decorative painted finishes for grand spaces — especially elaborate stencilling, replication of the best examples of real woods and marbles, unique glazed finishes, and Trompe L'Oeil.	Will respond to queries sent with S.A.S.E. Write in No. 837			✓	✓	✓	✓	✓		✓	Graining, patinas, color consultation, classes		
Zuber and Cie 979 3rd Ave., Dept. TB New York, NY 10022 212-486-9226	This 200-year-old company carries scenics, wallpapers, borders, architectural elements, and fabrics — all hand printed.	Free	Wallpapers, borders, custom duplication	European Classical					✓			Ceilings	architectural elements, fabrics	

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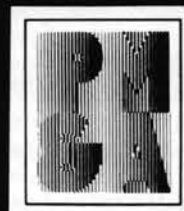
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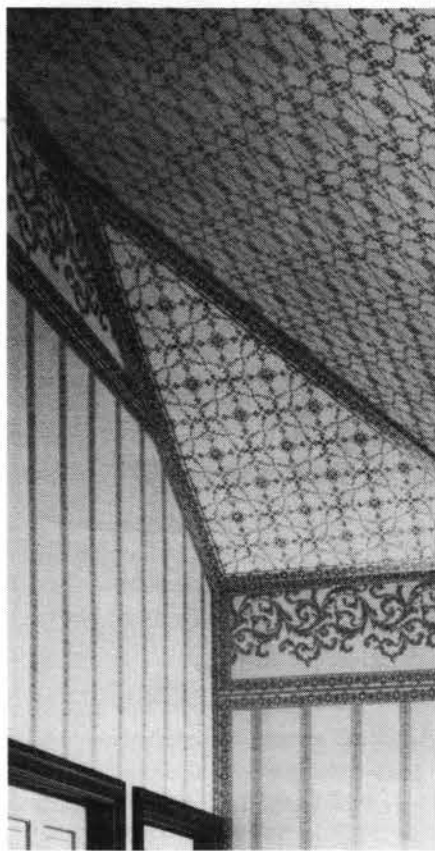
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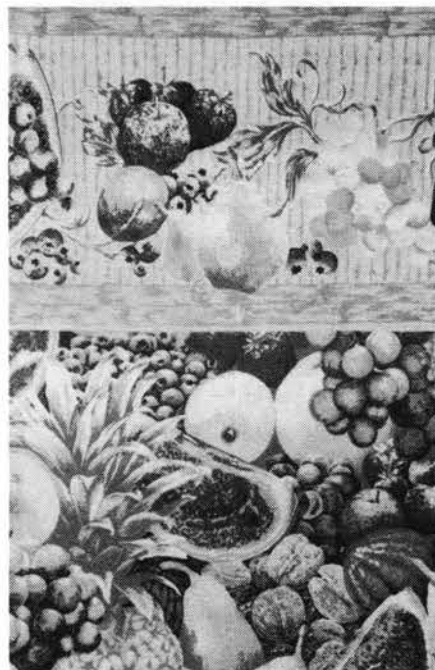
WRITE IN NO. 240

WALL & CEILING DECORATION PORTFOLIO

For more information on these companies, consult the SourceList on pages 78-82.



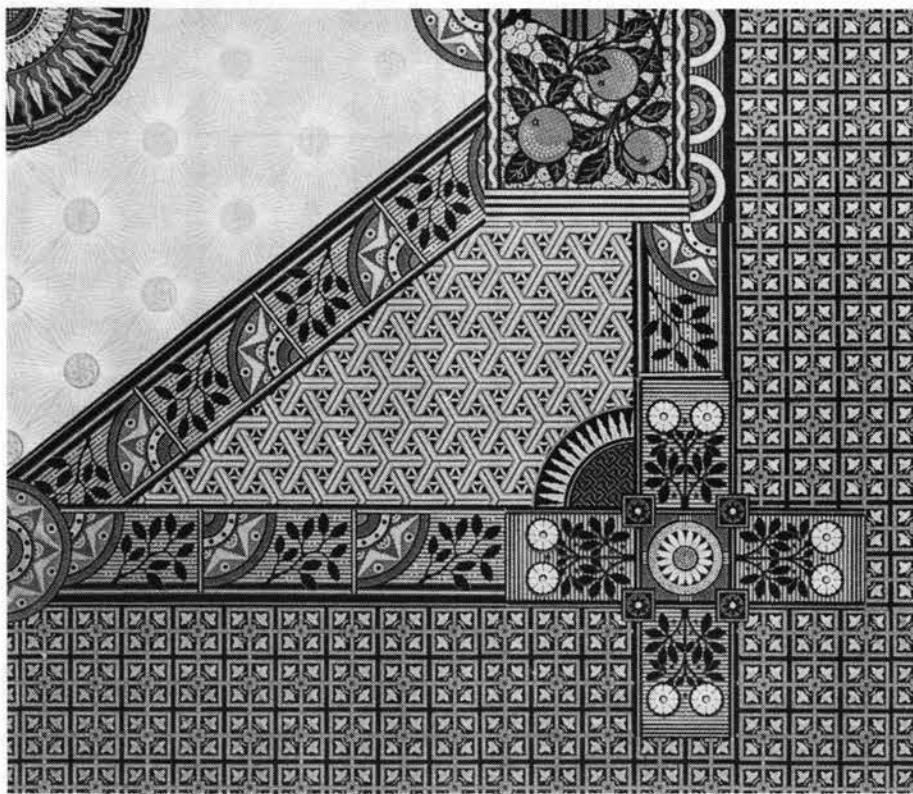
This installation features a VICTORIAN COLLECTIBLES, LTD. "Lacey Stripe" sidewall, "Dayle" ceiling paper, and "Opera" scroll and "Grand" scroll borders. Write in No. 525



Using "Riviera" wallcovering No. 4085/01 and "Caprice" border No. 2085/01 from BOUSSAC OF FRANCE would turn any dwelling into a house of plenty.



MARK GIGLIO STUDIOS produced the stencilled and glazed walls and crown molding in this New York residence powder room.



The above detail, "Ashes of Rose," is a quarter section of an Anglo-Japanese wallpaper roomset ceiling design by BRADBURY & BRADBURY ART WALL-PAPERS. The design is made up of modular elements which can be rearranged according to different room shapes.



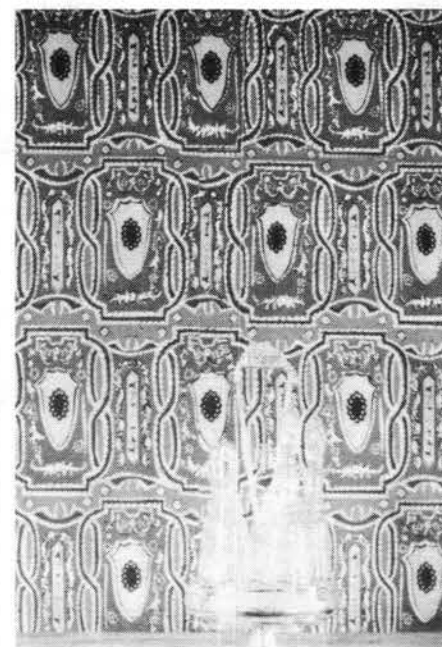
Restoration of the Pennsylvania State Capitol Senate Chamber by ALBERT MICHAELS CONSERVATION, INC. included historic paint analysis, plaster repair, gilding, and glazing. Write in No. 836



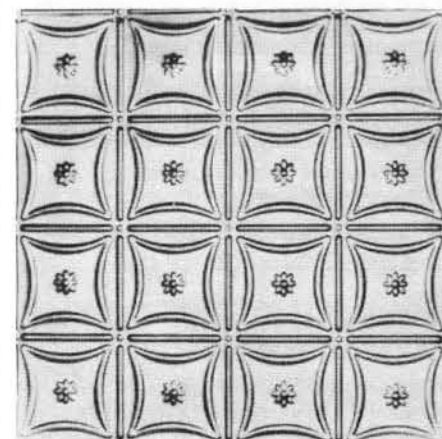
The AMERICAN ACADEMY OF DECORATIVE FINISHES sponsors educational trips to Europe. Shown above is an Academy student at work restoring the ceiling of the Chateau Abrene in France. Write in No. 49



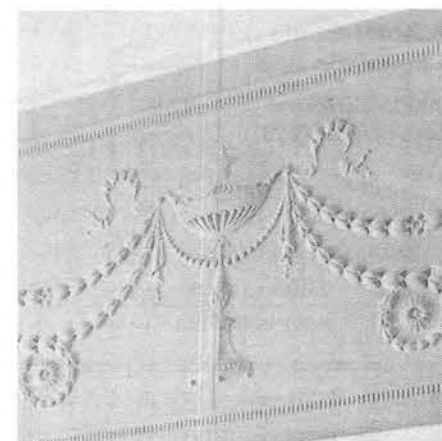
Above is a small sampling of the Arts & Crafts reproductions, adaptations, and new designs available from CAROL MEAD WALLCOVERINGS. All papers are hand printed. Write in No. 628



Paper from the drawing room of the Whatley Historical House, Flint, Mich., reproduced by BASSETT & VOLLUM. Write in No. 253



Shown above is Model No. 200, a 6-in. repeating pattern metal wall and ceiling panel available from A.A. ABBINGDON AFFILIATES, INC. Write in No. 892



CROWN CORP.'s Lincrusta "Adam Frieze," model No. RD1955, was first introduced in 1920. It is supplied in rolls of 11 yds., with a 21 in. design repeat. Trimmed depth is 20-7/8 in. Write in No. 506

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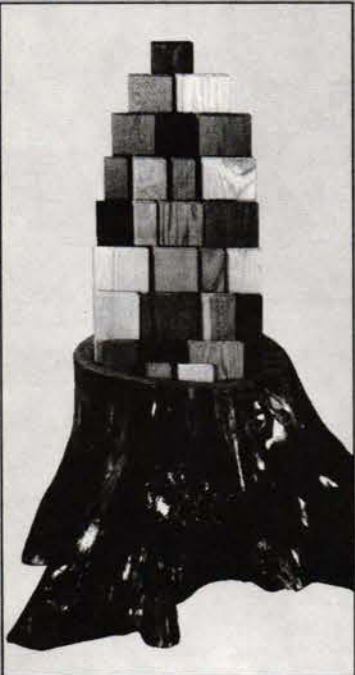
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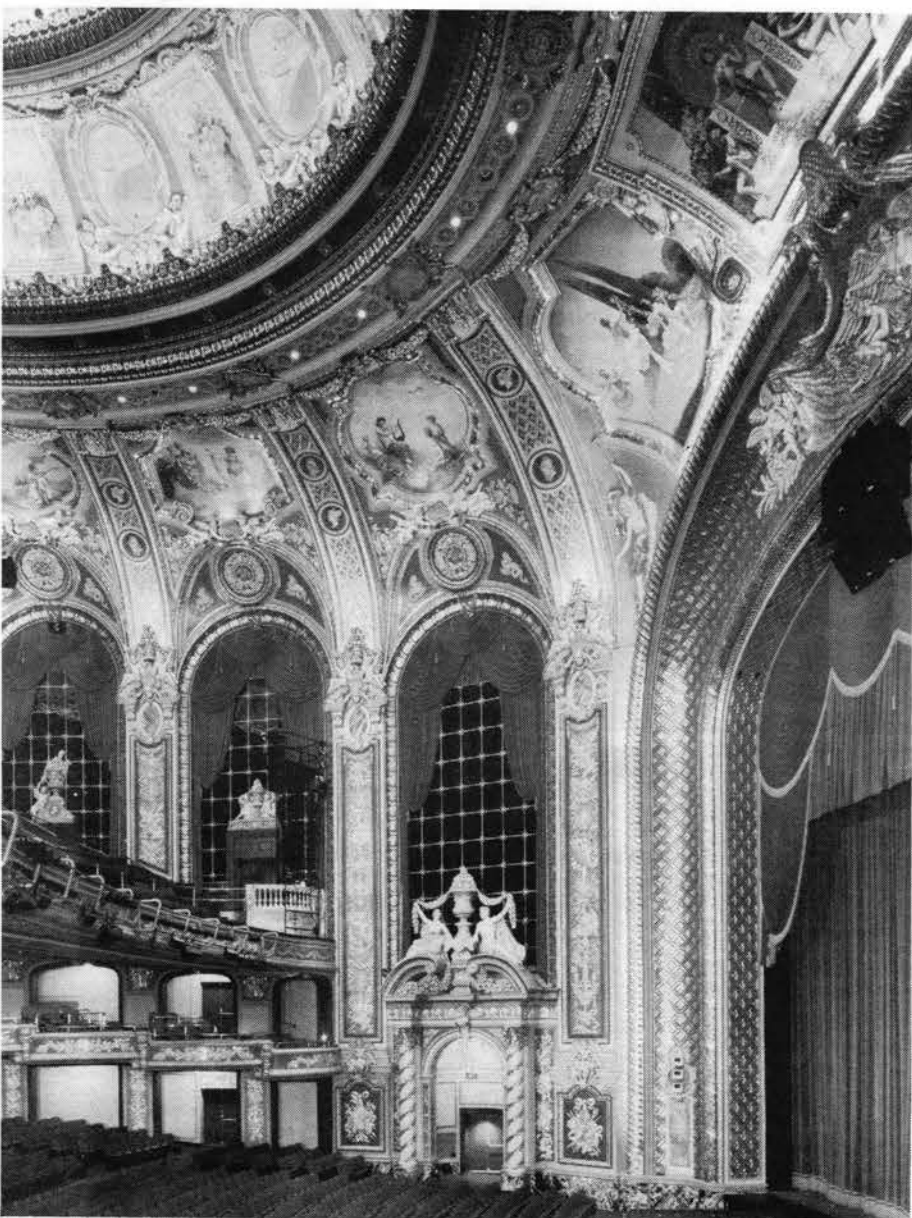
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WALL & CEILING DECORATION PORTFOLIO

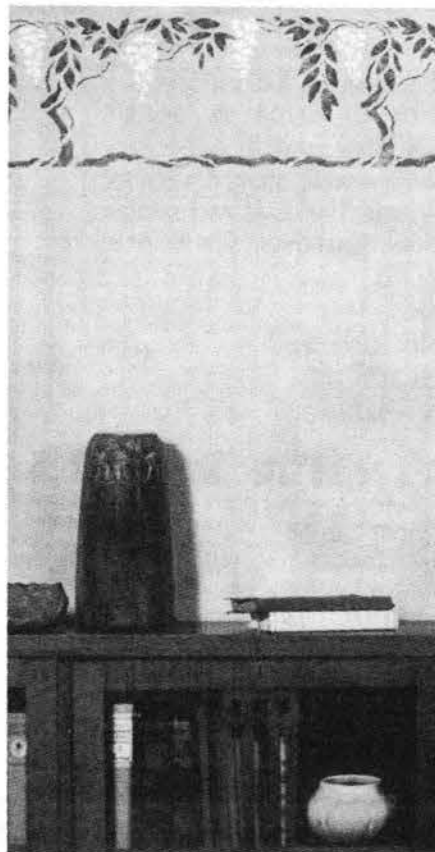
For more information on these companies, consult the SourceList on pages 78-82.



The above "Coat of Arms" tapestry measures 55 in. X 76 in.; it can be personalized with your initials. This and other woven and silkscreened wall hangings are available from VANDER HEYDEN WOODWORKING, INC. Write in No. 868



Artisans from CONRAD SCHMITT STUDIOS, INC., restored the Wang Center for the Performing Arts, Boston, Mass., using such techniques as gilding, glazing, marbling, flashing, and mural conservation. (Photo: Roger Farrington, Boston) Write in No. 804



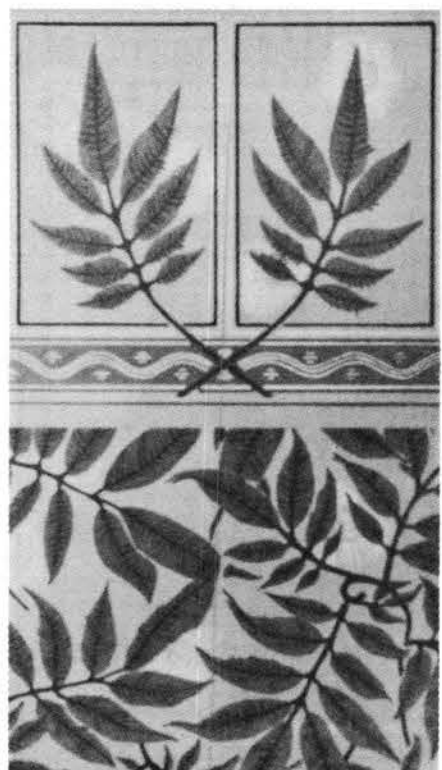
Shown above is "Wisteria," one of the many Arts & Crafts stencil patterns available from HELEN FOSTER STENCILS.



The decorative treatment for this room, part of the former Zen Center Guesthouse, includes a stencilled frieze of pheasants and irises (which required 16 overlays), floral wall powdering, and a stencilled chair rail band. ZAFFLE FINE DECORATIVE PAINTING. Write in No. 837



"Plum Orchard," above, is a screen-printed reproduction of a wallcovering found in the library of the Carnegie Mansion on Georgia's Cumberland Island National Seashore. THIBAUT WALLCOVERINGS



Detail of circa 1880's Arts & Crafts "Persis" reproduction wallpaper and frieze, hand printed by J.R. BURROWS & CO. Write in No. 693



KENN WELLS PAINTING STUDIOS created this 11 ft. X 9 ft. ceiling mural of playful putti. Write in No. 846



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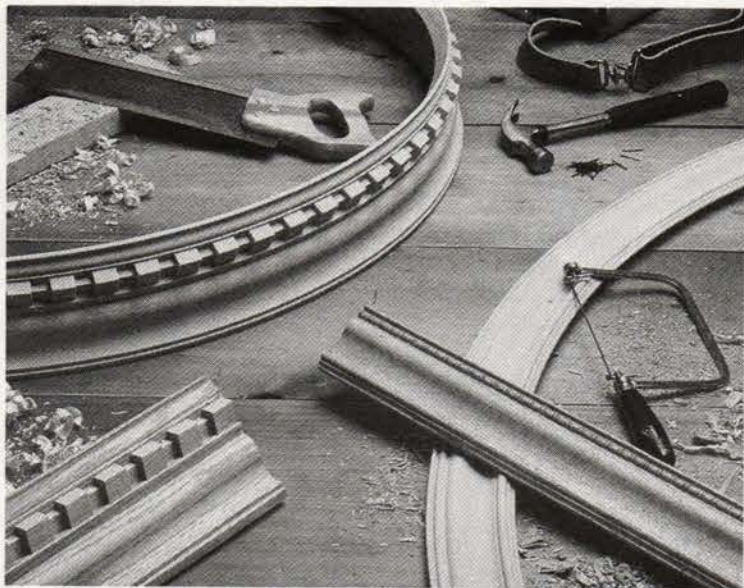


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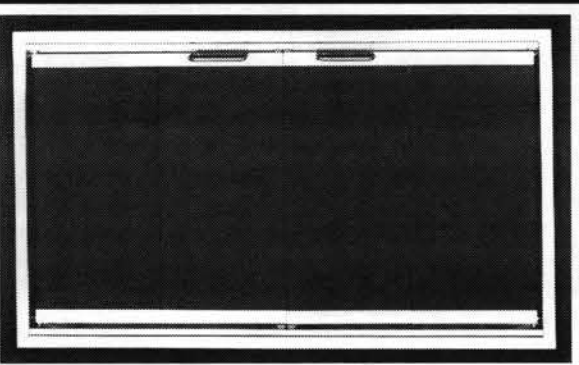
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WRITE IN NO. 325



Checklist For Antique Plumbing Fixtures

Antique plumbing fixtures bring authenticity to a period bath. But they can also bring many mechanical headaches. Here's what to watch out for.

by Jan Frutiger

A-Ball Plumbing Supply

At our company, we've had more than 20 years' experience helping customers sort out the many problems encountered when they attempt to mate antique fixtures and fittings to a modern plumbing system. The Editors asked if I could condense some of this experience into checklist form. This information might be helpful if one has any clients who have their hearts set on incorporating antique fixtures into their next bathroom. There's an amazing amount of nitty-gritty involved:

- ☐ When replacing faucet washers, bring the stem. Grease the interior threads of the faucet stem when replacing washers. This will give the faucet a longer life and improved operation.
- ☐ When replacing a handle, bring the stem.
- ☐ If the stem is worn out, bring the most intact one along for replacement. (This is also the case for above.)
- ☐ When a faucet leaks from the spout, that's an indication that the washer on the end of the stem needs replacement.
- ☐ When a faucet leaks around the handle, the stem packing needs replacement; bring the stem and the packing nut. If a fiber washer is used under the bonnet nut, it may also need replacing.
- ☐ Replacement screens for aerators are hard to find; soak the aerator in vinegar overnight, carefully rinse it the next day, and that may solve the problem. It is possible to find a complete replacement aerator, so bring the old aerator. If no aerator exists, bring the spout.
- ☐ To replace an adapter for a portable dishwasher connection, water filter system, or watering system, etc., bring both the old aerator and connection.

Footed Tubs: Waste & Overflows

- ☐ Old waste & overflow systems are repairable if all the old nuts and the tee and head with tube are in reasonable condition. It is possible to purchase thin-wall 1-3/8 in. slip joint washers and 1-3/8 in. tailpieces for repair. It is usually necessary to purchase a 1-1/2 in. x 1-3/8 in. slip joint nut and washer to connect to the trap under the floor. This is the case either in using an old waste & overflow or a new one of the same size.
- ☐ The overflow gasket fits between the outside wall of the tub and the overflow head. The overflow screen goes directly against the inside wall of the tub. The drain shoe (the bottom part) has a gasket between the bottom outside of the tub and the cast piece of the shoe. Make a snake of plumber's putty and put it to the underside of the piece that screws from the inside bottom of the tub.

A Note About Footed Tubs

- ☐ Supply lines for footed tubs are designed with a 90 degree bend; they run from the outside back of the faucet down to the floor. Today, supply lines are 1/2 in. OD copper and are either chrome- or brass-plated, so they can easily be

customized on site. This size can use shut-off valves manufactured today. We strongly recommend that these be placed at floor level so it is easy to turn off the water to the tub if maintenance is required.

- ☐ Most tubs require a face-mount faucet that is 3-3/8 in. on center. There are exceptions, and there are fixtures that can accommodate those cases. If the tub is not standard, proceed with extreme caution.

☐ Today's code requires that tub faucet spouts must air above the rim. The old skinny spout that goes directly down in front of the overflow screen will not pass a plumbing inspection.

- ☐ Adding a hand shower to a footed tub is a nice feature. It requires a vacuum breaker added between the hose and the handset.

If seeking a used footed tub, here are a few basic guidelines:

- ☐ Find a tub that has all four of its feet. Examine them so you can determine how stable the connection is. Trying to repair cracked or missing connections can be tricky.

☐ If a tub that is missing one or two feet is a "must have," remove one of the feet to find a mate. The variations in size, shape, and type of connection are amazing; there is no such thing as a standard tub foot.

- ☐ Price will vary greatly, depending on: Place of purchase, length of tub, style of foot, and condition of porcelain. The best scenario is a tub with all four feet intact and a traditional faucet that face-mounts above the overflow and is drilled at 3-3/8 in. on center. Other tubs may be attractive, but these shortcomings can lead to other problems.

Yes, there really are new footed tubs on the market other than Kohler's Birthday Bath or Vintage Bath!

- ☐ Having space for a walk-in tile shower is, of course, the best of all worlds. Otherwise, it is possible to have a stationary shower arrangement for a footed tub. A number of shower-rod systems are available for this purpose.

Pedestal Basins

Pedestal basins are a long, long subject. Today's pedestal basins are generally made of vitreous china (the same material that is used to make toilets). Older pedestal basins are either of cast iron and porcelain or china. Older china basins were usually more expensive and elaborate in design. "Elaborate in design" is the catch phrase: It also means that trying to refit is usually a more elaborate process — and sometimes an impossible one. If the sink says, "Crane," you may choose not to purchase it. Crane Co. made many beautiful pedestal basins, but they are also incompatible with those of any other manufacturer. This can prove to be a problem, especially if the drain assembly is not intact.

- ☐ In retrofitting an existing pedestal basin, some measures will keep frustration at a minimum. If possible, bring the sink top along; if not, bring photographs and measured drawings.
- ☐ If purchasing an older basin, see if it has an overflow. Unless you can determine that the drain system is all there, you may not want to get involved with it.

☐ Most people today like mixing water. How-

ever, many older basins have only HOT and COLD single faucets with a chain stay in the middle. In this case, there are some options: If the chain stay is removed and there is a hole approximately 1 in. dia. and the floor can be seen through this hole, any widespread faucet should fit. If the hole in the middle is encapsulated or too small, leave the chain stay. The next alternative is to put a single hole mixing faucet on one side of the basin and put a soap dish on the other side. If that option is not appealing, there are a few over-the-top mixing valves available.

- ☐ In purchasing an older china pedestal basin, the biggest problem can be the thickness of the china. Sometimes the china is too thick to accommodate a replacement faucet. There are also some models where the valves were set into the china and are a closed system. When they are gone, they are gone!

Older Bathrooms: Keep Them

- ☐ If possible, keep as much of the tile and as many fixtures as possible. Replacement parts are available for toilets. The tub and the sink can be resurfaced if very worn and stained. The biggest problem can be the condition of the faucets, but they can usually be replaced. If not, the entire basin may need to be replaced.

☐ Built-in tub or tub/shower fixtures in need of replacement, should be. Some newly manufactured ones are high quality and styled to fit an older bathroom. It is often possible to reach tub or tub/shower fixtures from the wall behind the tile wall so tile repair won't be required.

- ☐ If tile repair is necessary for other reasons, that is the time to seriously consider how much life is left in the in-wall fixtures. Tile repair and replacement are expensive and time consuming. So make this decision and replace the fixtures before any tile work is done. Do not get rushed into installing fixtures that are not aesthetically or functionally acceptable. It is not true that you can go back later to put on nicer looking handles and escutcheons. Each manufacturer's handles and trim only fit its own valves.

Resurfaced Fixtures

- ☐ A resurfaced tub or basin can be a treasure; therefore it requires a bit more caution and care. Non-abrasive cleaners should be used; colored bubble bath and hair dye should be avoided.

☐ All resurfacing companies use a similar material: An epoxy resin or polymer with properties similar to fiberglass. Durability is first contingent on the preparation before applying the material, which is directly related to the person doing the work. In all cases, the material needs to be applied to a clean, dry surface. Using a heat lamp after application *does not* make for a more durable surface; it is strictly a sales tool.

- ☐ There can be merit to acid washing the surface before applying the material to make sure that it is totally clean. There are many ways to clean a surface; all require time and elbow grease. Dry is the next key ingredient in any formula. The care and coverage of the material is the last — but equally important — ingredient in a successful resurface job. No dust, lint, or

hair may land in the material. This is, in essence, a high-tech paint job. Toilets cannot be resurfaced on the inside; standing water in the bowl will cause the material to lift and peel. Kitchen sinks are not good candidates for resurfacing either. The kitchen sink gets used and abused in ways that the material will not tolerate.

Sink & Basin Drains

Sinks — that is kitchen sinks — use 1-1/2 in. p-traps. In replacing the drain system, there are a couple of things to be aware of.

- ☐ If the installation is an old one, it is likely that the waste arm (the part that goes into the wall) is leaded into place. Today, there is a p-trap called a "repair trap" that has a slip joint connection. This allows you to take a tubing cutter or a hacksaw to the waste arm and cut off the bend and slip the shortened repair trap arm in its place. The other problem you may encounter in replacing the j-bend is that older ones are usually a bit longer than the ones manufactured today. You may need to replace the tailpiece (the piece coming down from the basket strainer assembly under the sink) or add a slip joint extension to the existing tail piece.

☐ Basins — that is, bathroom sinks — use 1-1/4 in. p-traps. All of the above applies to them as well.

Miscellaneous

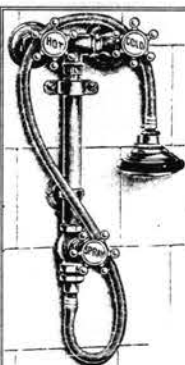
- ☐ The old size of water supply lines for footed bath tubs is 9/16 in. It is a size that does not marry well with new plumbing. We recommend that you use the 1/2-in. supply lines made for footed tubs. Some of the old shut-off valves that no longer work are odd sizes by today's standards as well. The best thing to do is to replace them, even if it means going into the wall to reach standard 1/2-in. pipe.

☐ About newer shower heads: Some manufacturers make the shower arm with a ball joint end on it, and that makes replacement extremely difficult. At that point, you usually need to replace the shower arm with a traditional 1/2-in. male end shower arm. This will allow for a wide variety of shower heads you can install. It is true that there are some adapters for the ball-joint shower arms. It has been our experience that they usually do not fit the shower arm that is being adapted to 1/2-in. male thread.

- ☐ In re-doing a bathroom, allow plenty of time to order and receive materials; four weeks fits most situations. For extensive jobs, check out the lead-time before lining up the plumber and doing demolition. Only after replacing or installing the major fixtures and painting and papering should accessory decisions be made.

These are some of the most common questions and problems, in our experience, that arise. Other problems usually involve custom design in fixtures — particularly the shower. We are always ready to help you make decisions for the best bathroom for you. It really isn't so bad. It just takes patience to get the bathroom you want. ■

Jan Frutiger, vice president of A-Ball Plumbing Supply, can be reached at 800-228-0134.



TRADITIONAL BUILDING's PERIOD PLUMBING SourceList

CSI# 15440

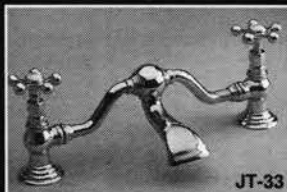
COMPILED BY JUDITH SIEGEL LIEF

COMPANY	SPECIALTY	Literature	P L U M B I N G F I X T U R E S							Restoration Services	Reproduction/ Antique
			Clawfoot Tubs	Faucets	Showers & Fittings	Accessories	Sinks	Toilets	Other		
A-Ball Plumbing Supply 1703 W. Burnside St., Dept. TB Portland, OR 97209 503-228-0026	Mail-order source for everything from porcelain resurfacing kits to showers, corner sinks, pedestal sinks, kitchen faucets, high- and low-tank toilets, clawfoot tubs, and shower curtains.	Free Write in No. 242	✓	✓	✓	✓	Porcelain, metal	High, low			R
Architectural Antiquities Dept. TB Harborside, ME 04642 207-326-4938	Large inventory of refurbished interior/exterior doors, stained glass, and unusual windows. Columns, brackets, and complete line of Victorian plumbing fixtures and accessories. Brass lighting, door hardware, fireplace accessories.	Free	✓	✓	✓	✓	Porcelain, metal	High, low	Slate & marble sinks, bidets, sitz- & foot-baths		A
Barclay Products Limited 4000 Porett Dr., Dept. TB Gurnee, IL 60031 708-244-1234	Victorian sinks and toilets in vitreous china and colors, including pedestal lavatories, toilets, drop-in bowls, clawfoot tubs, shower units for old-fashioned tubs, and more.	Free	✓					High, low			R
Bathroom Machineries, DEA P.O. Box 1020, Dept. TB Murphys, CA 95247 800-255-4426, 209-728-2031	Offers period plumbing fixtures, including clawfoot tubs, pedestal sinks, high-tank toilets, faucets; originals and reproductions. Restoration for plumbing and lighting.	Free Write in No. 586	✓	✓	✓	✓	Porcelain	High, low	Mirrors, sconces, medicine chests, more	✓	R/A
Concinnity 35 Melville Pk. Rd., Dept. TB Melville, NY 11747 516-293-9494	American designed, engineered, and manufactured traditional kitchen, bath, and bar faucets; tub, shower, and bidet sets; grab bars; and more. 15 finishes; guaranteed-for-life valving.	Free		✓	✓	✓					R
Decorum, Inc. 235 Commercial St., Dept. TB Portland, ME 04101 207-775-3346	Reproduction and antique decorative hardware and accessories: Bath and kitchen faucets, clawfoot tubs, towel bars, mirrors, railings, architectural salvage, and more.	Free Write in No. 719	✓	✓	✓	✓	Porcelain, metal	High, low	Towel bars, mirrors, railings, cabinet door hardware		R/A
Eugenia's Place 3522 Broad St., Dept. TB Chamblee, GA 30341 800-337-1677, 404-458-1677	Supplier of authentic antique hardware, such as curtain tiebacks, door knockers & hardware, hinges, door plates, rosettes, furniture hardware, and twist bells. Vintage bathroom accessories.	Free Write in No. 431				✓			Bathroom accessories		A
Granite Lake Pottery, Inc. P.O. Box 236, Rte 9, Dept. TB Munsonville, NH 03457 800-443-9908, 603-847-9908	Hand-thrown stoneware sinks ranging in size from 10-20 in.; each is individually decorated by hand. Matching tiles and bath accessories are available.	Free					Stoneware		Tile, accessories		
Hardware Plus 701 E. Kingsley Rd., Dept. TB Garland, TX 75041 214-271-0319	Specialists in creating complete packages of vintage hardware, plumbing, architectural detailing, and accessories for major projects. Hardware meets strict commercial codes and ADA regulations. Custom fabrications available.	Free Write in No. 652	✓	✓	✓	✓	Porcelain, metal	High, low	IAPMO and ADA approved fittings, brass bar railings		R/A
Harrington Brass Works 7 Pearl Ct., Dept. TB Allendale, NJ 07401 201-818-1300	Traditional bathroom plumbing fixtures and accessories; kitchen faucets; custom finishes.	Free		✓	✓	✓					R
Hydrokinetic Designs, Inc. 3840 Alhambra Ct., Dept. TB Coral Gables, FL 33134 305-667-7213	This company manufactures an all brass, multi-directional twin head shower system featuring two jointed extendable arms, which pivot and adjust for lateral and vertical usage; flow restrictors help conserve water.	Free			✓				Shower arm		
J.T. International 83 E. Water St., Dept. TB Rockland, MA 02370 617-288-0516	Reproduction Victorian & traditional faucets, shower systems, and pedestal sinks.	Free Write in No. 243	✓	✓	✓	✓	Porcelain, metal	High, low	Accessories	✓	R
Kallista, Inc. 2 Henry Adams St., Dept. TB San Francisco, CA 94103 510-895-6400	Traditional products for kitchen and bath, including bathtubs, basins, faucets, accessories, and kitchen sinks and faucets.	Free		✓	✓	✓	Porcelain, metal		Solid-copper tub		R
Murdock, Inc. 2488 River Rd., Dept. TB Cincinnati, OH 45204 513-471-7700	Manufacturers of a complete line of outdoor drinking fountains (post and flush box type), hydrants, and shower equipment, in brass, iron, and stainless castings. Custom work and finishes available.	Free Write in No. 378							Fountains, pool & beach showers	✓	A
Perma Ceram 65 Smithtown Blvd., Dept. TB Smithtown, NY 11787 516-724-1205	This company reglazes tubs, toilets, wall tile, sinks, and floors, including materials like cast iron, porcelain, china, fiberglass, and marble. 5-yr. guarantee; custom colors; over 20 years' experience.	Free	✓			✓	Porcelain, metal	High, low	Reglazing		A
Restoration Works 810 Main St., Dept. TB Buffalo, NY 14202 800-735-3535	Hardware dealer that specializes in assembling suites of complementary hardware and fittings for architects, interior designers, and contractors working on commercial projects.	Free	✓	✓	✓	✓	Porcelain	High, low	Fittings		R
Roy Electric Co. 1054 Coney Island Ave., Dept. TB Brooklyn, NY 11230 718-434-7002	New full product color catalog featuring 274 Victorian and T-of-C lighting fixtures - sconces, pendants, and flush fixtures - as well as 190 choices of glass shades. Also offers custom capabilities and restoration.	Free Write in No. 43	✓	✓	✓	✓					R
Sink Factory 2140 San Pablo Avenue, Dept. TB Berkeley, CA 94702 510-540-8193	Manufactures 14 styles of pedestal sinks from streamlined to Edwardian; reproduction toilets; basins that can be custom painted, custom marble or granite tops for vanities; and brass support for open vanities.	Free Write in No. 735	✓	✓	✓	✓	Porcelain, metal	High, low	Hard-to-find pieces, custom	✓	R/A
Strom Plumbing by Sign of the Crab 3756 Omec Circle, Dept. TB Rancho Cordova, CA 95742 916-638-2722	Wide range of high-quality solid brass and copper door hardware and plumbing fittings, faucets, footed tubs, and bath & shower accessories. 'Supercoat' prevents tarnish. Traditional copper weathervanes, too.	Free Write in No. 819	✓	✓	✓	✓	Porcelain, metal	Low			R
Sunflower Shower Co. P.O. Box 4218, Dept. TB Seattle, WA 98104 206-722-1232	Victorian-styled reproduction of an 8 in. diameter showerhead. The product is either brass or nickel chrome-plated copper, and has a five-year warranty. Shower-arm bracket available, or installs with 1/2 in. standard fittings.	Free Write in No. 294			✓						R
Taylor Specialties Company 100 Hudson St., Store B, Dept. TB New York, NY 10013 212-226-5369	This Soho shop machines new and obsolete fittings and faucets, restores antique fixtures, and houses a large inventory of hardware and fittings.	Free	✓	✓	✓	✓	Porcelain	High, low	All accessories	✓	R/A
Watercolors, Inc. Dept. TB Garrison-on-Hudson, NY 10524 914-424-3327	Exclusive importers and distributors of authentic English Victorian bathroom and kitchen faucets and accessories. Fittings for U.S. specs. Chrome, brass, gold, nickel, and enamel finishes.	Free Write in No. 53		✓		✓			Specialty plumbing items, per client specs		R/A

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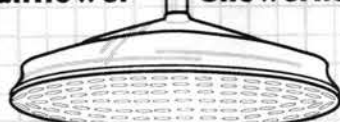
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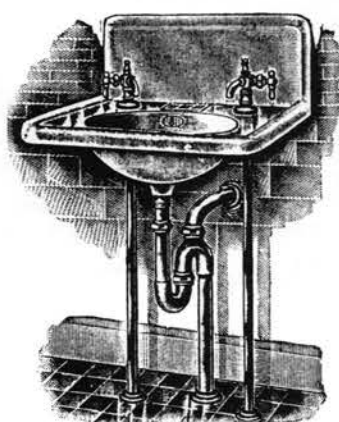
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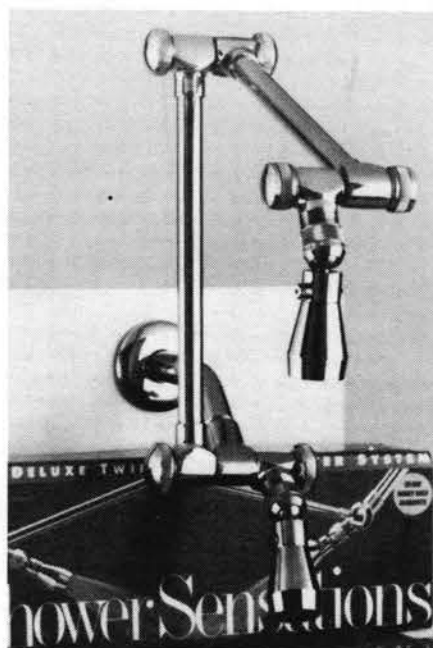


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For more information on these companies, consult the SourceList on page 90.



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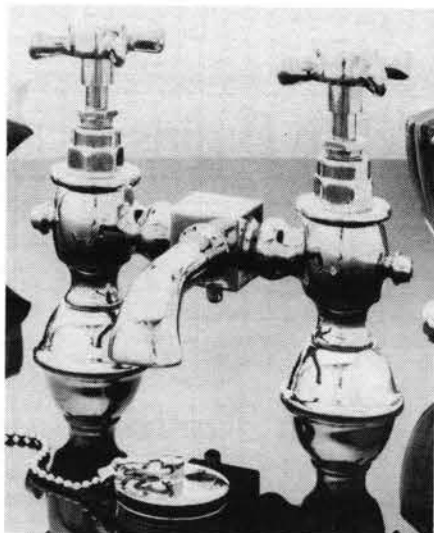
DEA BATHROOM MACHINERIES restored this c.1900 marble-top basin, complete with backsplash and marble skirt, rope brass legs with glass ball feet, and original marbled 12 in. bowl. Write in No. 586



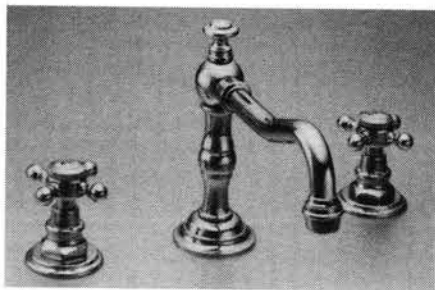
This traditional 5-ft. cast-iron clawfoot tub (with an angled back for reclining) is one of A-BALL PLUMBING SUPPLY's biggest sellers. Write in No. 242



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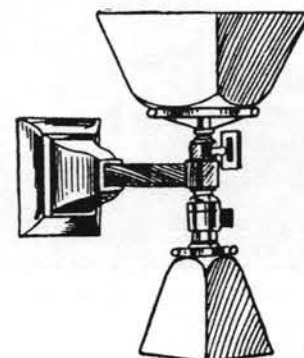
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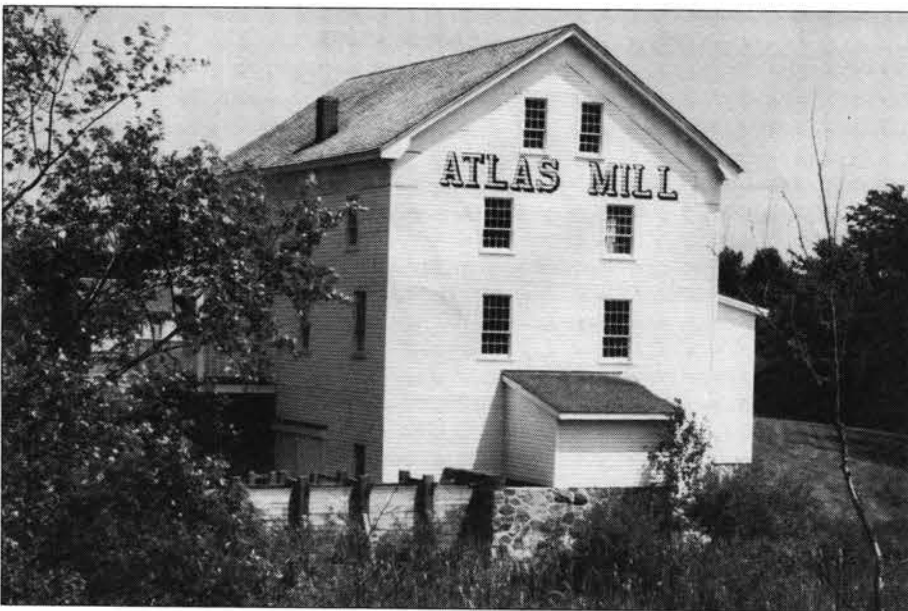
continued from page 6

Quinn Evans/Architects promptly embarked on the Old Executive Office Building: \$24 million, the country's finest Second Empire building, requiring restoration of 29-foot-tall cast-iron chimneys and over a mile of copper gutter while offices below stayed occupied and met the adjacent White House's security standards.

Staying Cautious

By 1985, Quinn/Evans was experimenting with computers, developing a CAD system that was state of the art for its day and has kept up. But the firm has never rushed into any new building technology: "The first choice is always the original construction method with improved details. My concern about architecture today is that you can buy a computer, do a design, apply a bunch of manufacturer's details, and have no idea what works," Quinn says, and Evans adds, "You have to be suspicious of any new approach. We've seen too many hasty decisions throughout the history of construction: The way terra cotta was considered perfect when it was first developed, for instance, and people installed it without expansion joints or proper weepage."

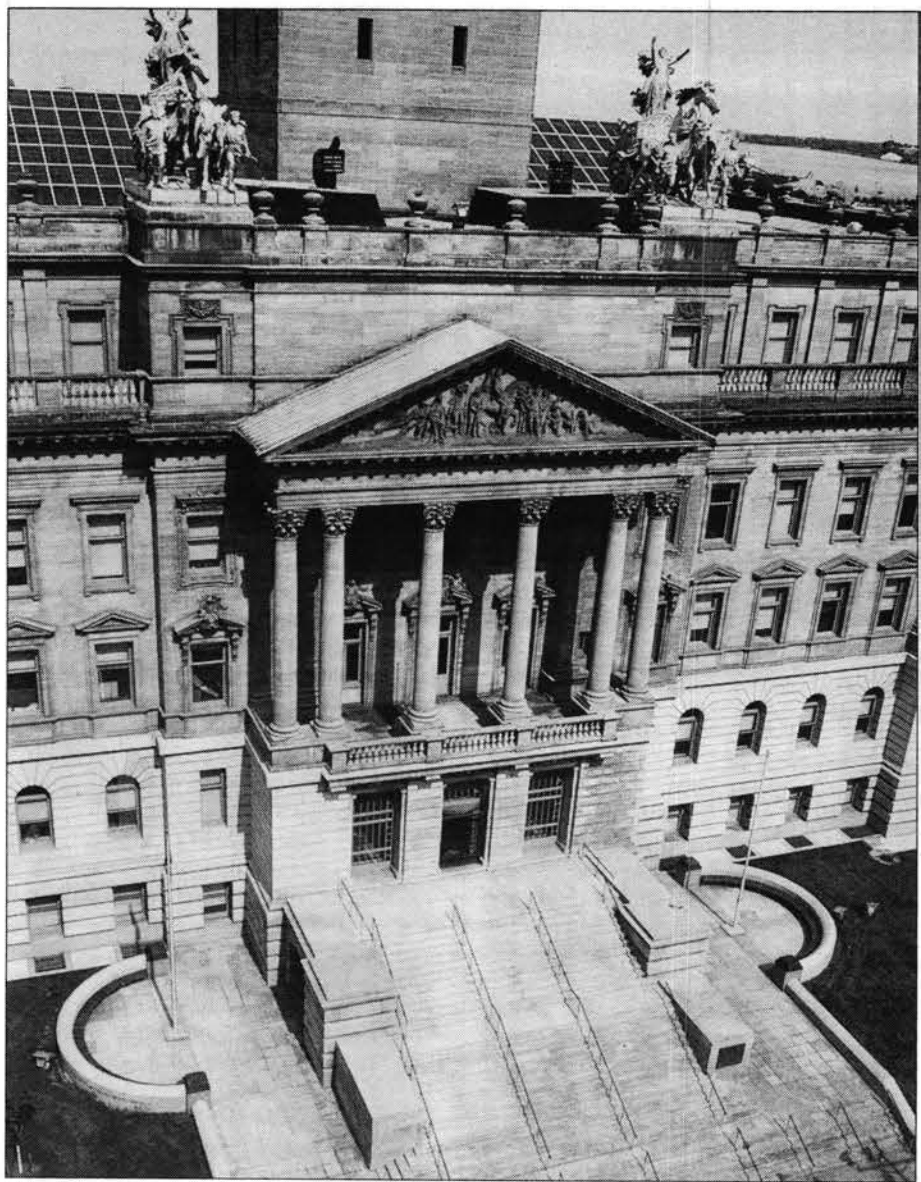
Quinn and Evans have made a sub-specialty, in fact, of cleaning up after excessively experimental 20th-century architecture, like Frank Lloyd Wright's 1939 Pope-Leighey house in Virginia (its wood-sandwich load-bearing walls have proven so ill-conceived that, in Quinn's words, "the house has torn itself apart") and Edward Durell Stone's 1971 Kennedy Center which, in Quinn's words, amounted to "a marble-clad failure waiting to happen." The firm has entered all of the Center's 1.5 million sq.ft. into a CAD system and predicts that the walls are salvageable, but not the 600-foot-long terrace, which has no drainage holes and a paltry pair of expansion joints. Quinn Evans' own new construction efforts are fairly risk-phobic: Typical is a long gable-roofed wing at a Maryland arts academy, next to 1840's and 1880's buildings and expressing



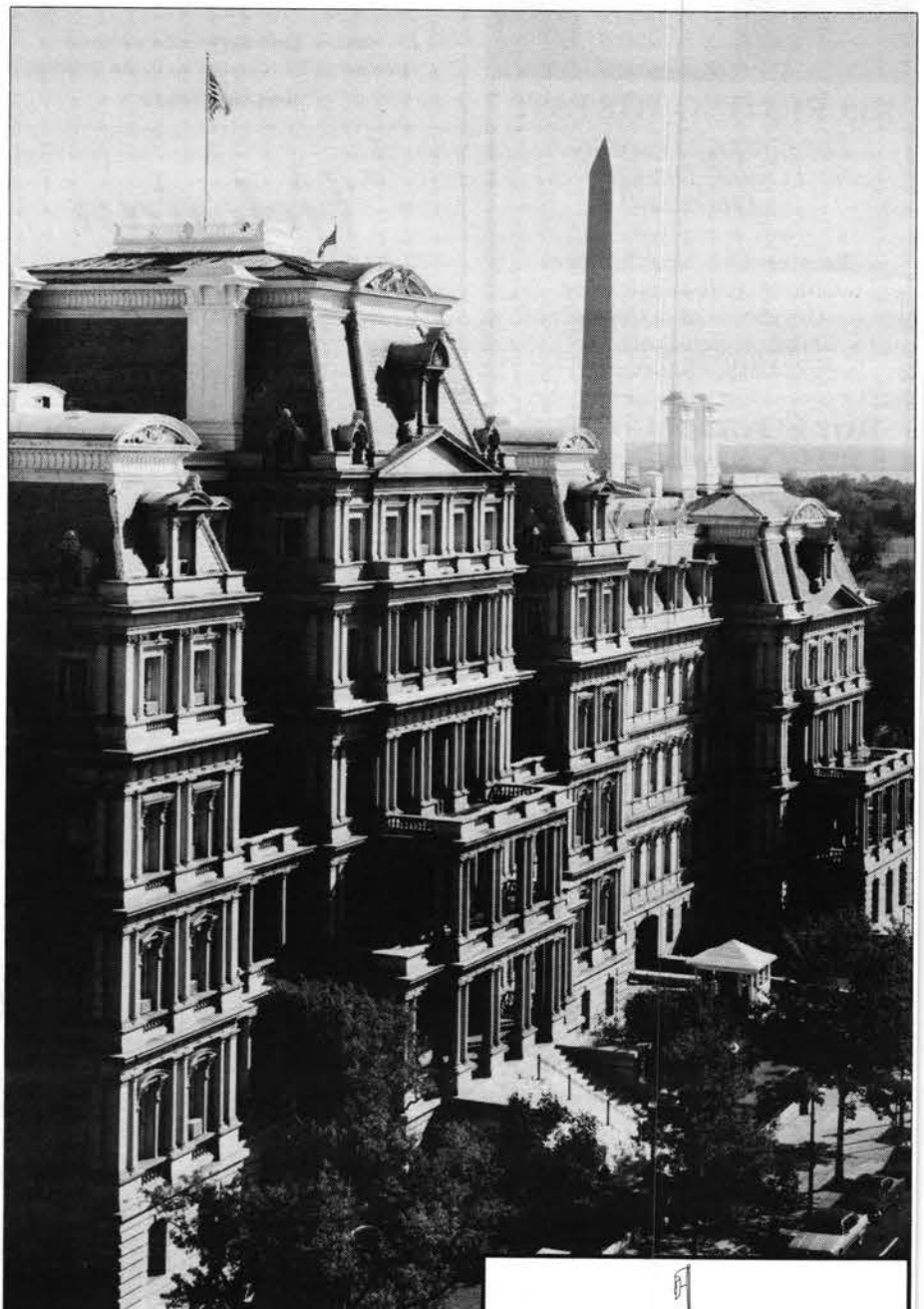
Crossroads Village's 32 acres contain 40 buildings moved to the Genessee County site from around Michigan. Distances between buildings are based on maps of typical 19th-century small towns; the Atlas grist mill, nearly empty when it arrived, now holds a complete set of turbines, pulleys, and line shafts and can grind grain again. (Photo: Harlan Hambricht)



The \$15 million renovation of the Smithsonian Institution's Arts and Industries Museum included roof replacement, masonry restoration, and replication of 500 windows. (Photo: Harlan Hambricht)



The granite Grand Staircase of the Wayne County Courthouse in Detroit was dismantled so that the brick pillars and iron framework could be rebuilt and reinforced with steel beams. Original mahogany window frames were stripped and fitted with double glazing and weather-stripping. Extensive interior restoration was also done. (Photo: Balthazar Korab)

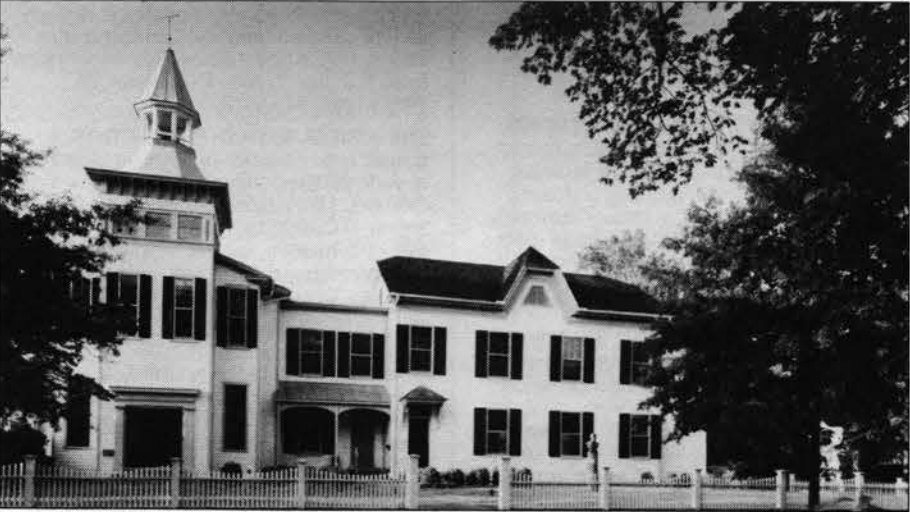


The \$23 million renovation of the Old Executive Office Building beside the White House had to be completed while offices remained in use and up to White House security standards. For the project Quinn Evans pioneered the use of CAD for preservation. (Photo: Larry Olsen)



its contemporary origins with glass swaths and flush wood siding and looking somewhat backward with columns that have abstract capitals but traditional tapering.

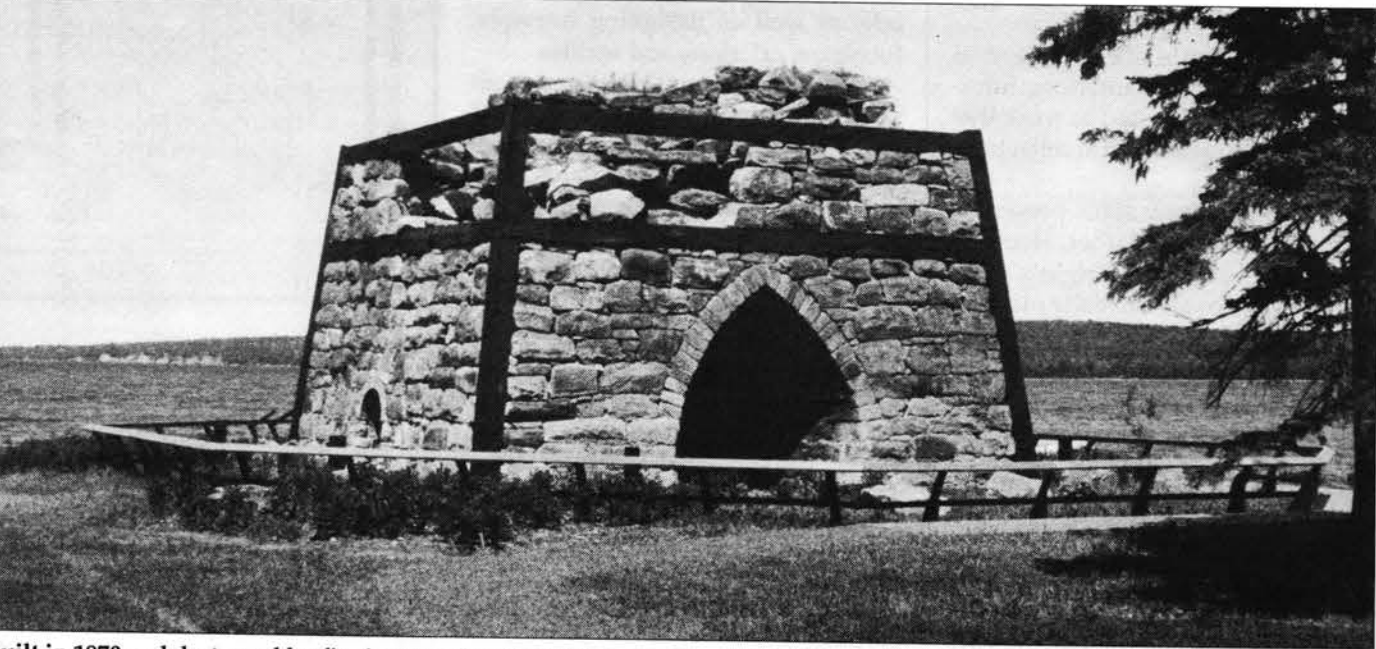
Something from nearly every state is on Quinn Evans' boards now. They are developing preservation plans for housing on naval bases — from 1920's Annapolis Georgians to 1820's San Diego adobe. They are studying architecture in Midwest national parks, starting with Great Lakes lighthouses. Staff members are perfecting individual skills: In Washington, Baird Smith focuses on masonry, Cheryl Jacobs on Frank Lloyd Wright, as well as ADA (especially for



Quinn Evans added a gallery (top right) in the backyard of an art academy in Easton, Maryland (above), built in the 1840's and 1880's. The wing has glass swaths to indicate its modern origins and columns with abstract capitals but traditional tapering. (Photos: Larry Olsen)



The \$2.3 million restoration of the Michigan State Capitol's Executive Wing for office use included removal of new dividers and overfloors, HVAC updating, decorative-paint restoration, and reinstallation of historically accurate furnishings. (Photo: Balthazar Korab)



Built in 1870 and destroyed by fire in 1877, this blast furnace is now a stabilized ruin with archaeologically sensitive areas fenced off. (Photo: Ilene Tyler)



The 16-foot columns and other plaster details at the 1906 Howell Carnegie Library in Howell, Michigan, had all been either removed or water damaged and had to be recreated, and a triple switch-back handicapped ramp was added to the facade to maintain this rotunda as the main entryway. (Photo: Fred Golden)

theaters), and Ilene Tyler (in Michigan), on conserving finish treatments, especially Wright's.

Quinn is troubled lately by how much architecture has gone to ruin in economically distressed places like Barbados and in large American cities; so he's volunteered to help the Washington school system bring its old schools up to current code and space demands. Evans remembers his minister father's commitment to gradual social improvement, and takes pleasure in visiting towns like Charleston, South Carolina, one of several following facade-renovation guidelines, prepared nearly 15 years ago by Evans. "You could really see and feel the change there," he says of a recent trip. "It didn't happen overnight. It's still going on. But it did feel good to see results." ■

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and Day 2 will be workshops, demonstrations, and walking tours, at the Academy, 111 Franklin St., N.Y.C. For details, see the display ad and coupon in this issue on page 5 or call (718) 636-0788.

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Division 18 - Book Reviews

The Lesser-Known Work of Frank Lloyd Wright

Frank Lloyd Wright: INTERIORS and FURNITURE, Thomas A. Heinz, Academy Editions, 264 pp., Hardcover, \$85.

Frank Lloyd Wright: GLASS ART, Thomas A. Heinz, Academy Editions, 264 pp., Hardcover, \$85.

To be perfectly honest, this reviewer had been getting somewhat impatient with the growing crescendo of FLW worship. Then, along came the Frank Lloyd Wright Show at New York's Museum of Modern Art — coupled with this matched set of elegant books by Thomas A. Heinz, one of the country's foremost Wright scholars. The body of work revealed in the Show and these two books — which is only a fraction of Wright's total *oeuvre* — makes a believer out of even the most unyielding iconoclast.

One remarkable aspect of Heinz's two books is that he is able to present us with 528 photo-packed pages while focusing just on Wright's interiors, furniture, and art glass. That so much space can be profitably devoted to work that most observers would say is peripheral to Wright's central body of architectural design is testimony to the scope of Wright's genius.

Heinz's twin volumes are not just a collection of beauty shots presented with the academic detachment of the architectural historian. Rather, Heinz — who is himself an architect and furniture-maker — analyzes Wright's work with the immediacy of the practicing designer. His photos are carefully planned to show illuminating detail; frequently there are several views of the same piece so that a designer can see how the piece is actually constructed and how the details relate to one another.

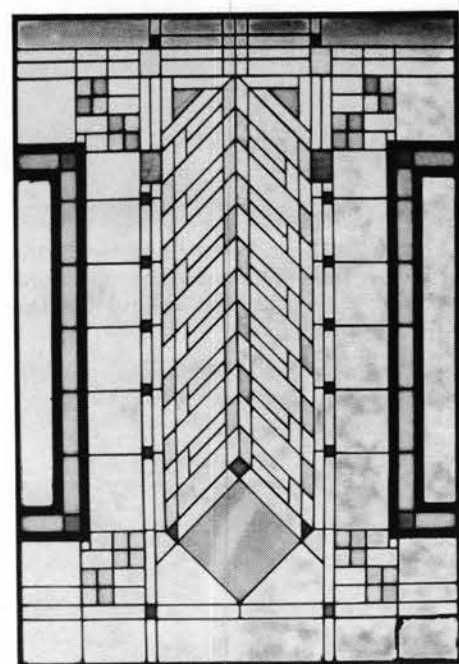
For example, Heinz shows how, when Wright built a dining table for the Willit House, he devised a smaller dining chair for the Willit children with a sliding frame that not only raised a young diner to the level of the table but also conformed the height of the small chair back to the height of the backs on the regular dining chairs.

The furniture book abounds with all manner of chairs — from tall, austere spindle-backed creations which, when clustered around a table form a sheltering screen around the dining space, to distinctive barrel seats, so sculpted along

the arms that they conform precisely to the resting elbows of the sitter. Wright's tables are also well-represented: Dense bold structures with built-in sides, extensions, and restrained stepped details. Many of the furniture designs are from Wright's Prairie years, 1900-1910, a period when the architect's creativity was at an astonishingly productive peak. Wright's architectural practice constructed 92 buildings during this decade, as well as designing interiors, furniture, art glass, and textiles.

The volume on Wright's art glass shows his highly inventive mind at work in an entirely different medium. Wright's approach to his glass art was the same as his approach to buildings: Continued exploration of the properties and potentialities of his materials. He was technically adept at developing unusual coming techniques, often making soldered appliques of colored glass over a formal ground design. And Wright was uniquely skilled at using an entire range of forms and colors of art glass to introduce a dazzling spectrum of light into a house in the form of room dividers, corridor walkways, cabinet fronts, screened wall sconces, table lamps, and spacious skylights that filled rooms with amber and other tones.

These two volumes are far and away the best-illustrated and most complete surveys of Wright's forays into furniture and art glass. If your book dealer doesn't have them, the books can be ordered through the Customer Service Dept. at St. Martin's Press: 1-800-288-2131. — CL



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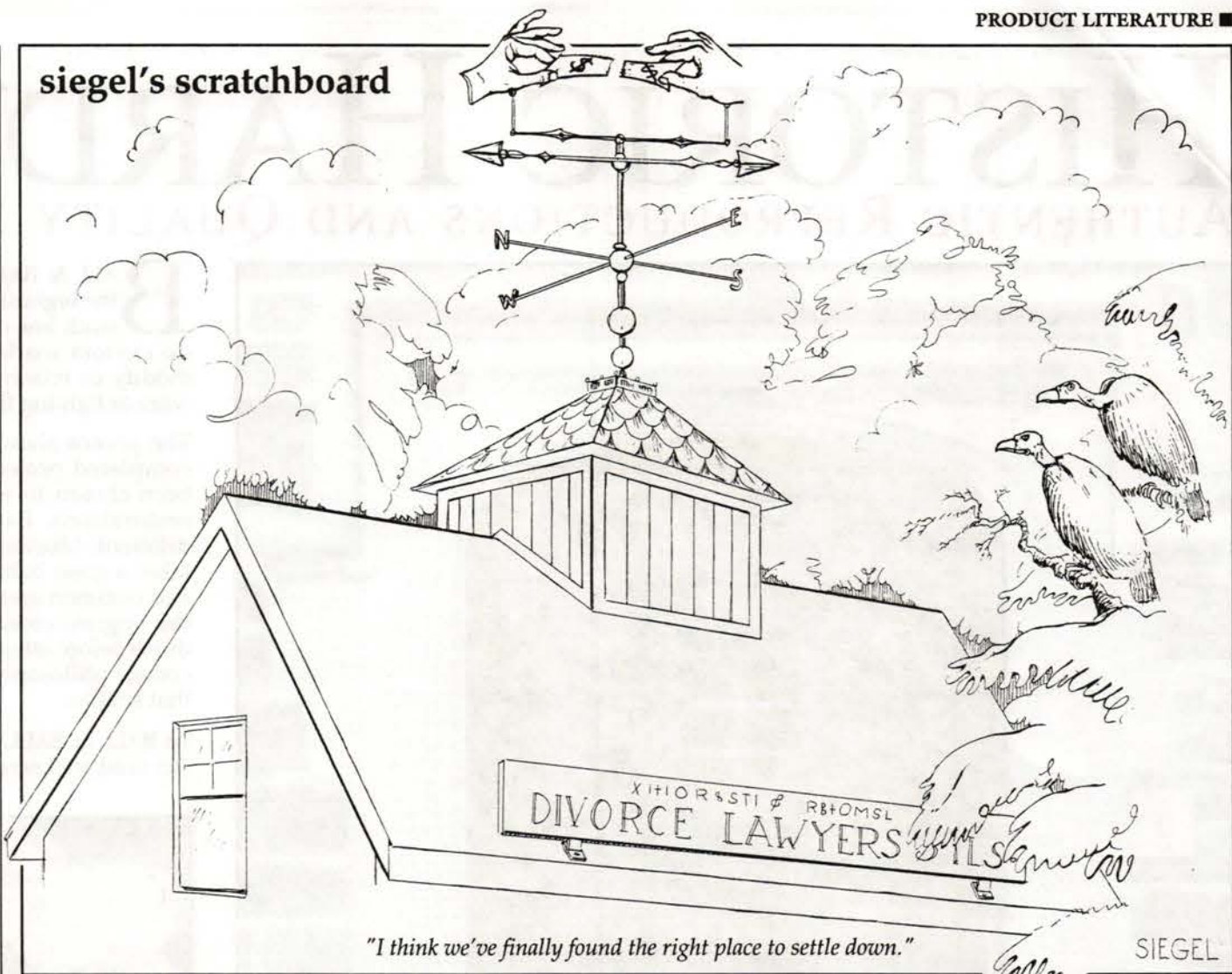
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693. Victorian Carpet & Lace — Real Victorian Carpet is woven on 19th-century machinery, using original designs. Hundreds of authentic patterns available. English lace for window treatments. Free brochure. **J.R. Burrows & Co.**

510. Decorative Painting — Headed by a European-trained master painter, this studio does major projects all across the country. Restoration a specialty, but also executes new commissions. Free brochure. **John Canning & Co., Ltd.**

19. Tin Ceilings — 18 patterns of tin ceilings for Victorian homes and commercial interiors. Designs from Victorian to Art Deco. Several exclusive patterns; cornices in 4-ft. lengths. Free brochure. **Chelsea Decorative Metal Co.**

240. Metal Ceilings & Lincrusta — Extensive line of tin ceilings and trim with a Class A fire rating. Also carry durable high-relief Lincrusta for walls and ceilings. Free brochure. **Classic Ceilings**

804. Decorative Commercial Interiors — Restoration and custom work for theaters, religious buildings, etc. Painting, plasterwork, glass. Free brochure. **Conrad Schmitt Studios**

506. Anaglypta & Lincrusta — Importer and distributor of authentic Victorian Crown Anaglypta & Lincrusta embossed wallcoverings, and line of Crown moldings. Free literature. **Crown Corp.**

910. Architectural Stone — Skilled carvers provide stone services, including statuary, ornament, mantels, entrances, and architectural moldings. Reproductions in marble, limestone, or bronze. Free brochure. **DMS Studios**

Molded Ornament — Huge selection of molded ornament in plaster and compo. Wide variety of traditional and historical styles. Call (312) 847-6300 for info on obtaining catalog. **Decorators Supply Corp.**

246. Historic Painting — Major studio with extensive restoration and original design experience. Services range from research and analysis to Trompe L'Oeil, graining, and gilding. Free literature. **EverGreene Painting Studios**

469. Faux Finishing Products — Manufacturer/supplier of designer and architectural finishes. Also offers classes. Free brochure. **Faux Effects**

449. Faux Finishing Workshops — Marbleizing, graining, glazing, and other specialty paint finishes taught to professionals in hands-on workshops. Free brochure. **Fe Fi Faux**

289. Molded Ornament — Fine period & custom ornament: Cornices, medallions, sculpture, niches, capitals, brackets, domes. 2,300 antique molds available. Routinely handles large jobs. Free catalog. **Felber Ornamental Plastering**

694. Interior & Exterior Paints — Imported from Holland, these high-quality paints outlast many other paints. Free brochure. **Fine Paints of Europe**

196. Plaster Ornament — Hundreds of ornaments in

fiber-reinforced plaster from turn-of-the-century molds. Also: Custom duplication of ornament from your sample. Free flyer. **Fischer & Jirouch Co.**

440. Arts & Crafts Tile & Lamps — Tiles are suitable for hearths, walls, fireplace surrounds, etc. Made with original 1920's glazes. Free brochure. **Fulper Tile**

854. Gilding Specialists — Conservation and fabrication of architectural elements. Free brochure. **Gold Leaf Studios**

914. Parquet Floors — Classic hardwood parquet borders and full-room patterns are exact reproductions of floors found in homes built from 1880 to 1920. Free brochure. **Historic Floors of Oshkosh**

453. Historically Accurate Paints — Use authentic pigments and vehicles for highest-level historic restorations. Free brochure. **Historic Paints, Ltd.**

875. Skim Plastering System — Revolutionary premixed, wet-finish, 3-coat system gives hard-polished plaster surface. Ideal for resurfacing old plaster. Free literature. **Master of Plaster**

628. Arts & Crafts Wallpapers — 18 hand-printed patterns of flora and fauna (made with environmentally safe materials) in the A&C style. Free brochure. **Mead Wallcoverings**

718. Decorative Painting Studio — Offers murals on canvas, wallpapers, and decorative finishing techniques for architectural projects worldwide. Free brochure. **Paul Montgomery & Assoc.**

723. Reproduction Wallpapers — For historic restorations. Reproduces from original fragments. Extensive collection of patterns. Free brochure. **Mount Diablo Handprints**

877. Traditional Milk Paint — Available in a dry powder form to which water is added. Durable, non-toxic, and easy to use; historical palette of colors. Free brochure. **Old Fashioned Milk Paint Co.**

842. Trompe L'Oeil, Sculpture, Etc. — Studio offers decorative painting finishes, wallpapers, and 3-D works in all historical styles. Free brochure. **Optic Nerve Art Corp.**

989. Antique Doors & Architectural Elements — 40,000 sq. ft. showroom holds a vast array of antique doors, furnishings, and architectural elements. Free brochure. **Red Baron's**

288. Gold Leaf Supplies — Gold leaf in booklets or rolls, oil sizes, Kolner burnishing clays for water gilding, imitation gold & aluminum leaves & rolls. Free brochure. **Sepp Leaf Products**

166. Wood Flooring & Paneling — Hardwood flooring, paneling, and ceilings in a variety of species, such as cherry, ash, white oak, maple, walnut, and poplar. Free brochure. **Sheoga Hardwood Flooring & Paneling**

65. Architectural Molding Materials — Molding compounds can be used on-site, and are readily pourable or brushable for painting onto vertical surfaces. Free brochure. **Smooth-On**

153. Plaster Wall Repair — System combines a saturant with a fiberglass mat, which can then be painted. Free brochure. **Specification Chemicals**

826. Embossed Wallcoverings — Are among the period products available from this company. It also carries cast-iron staircases and custom metalwork. Free brochure. **Stephoe and Wife**

110. Historic Paint Colors — Source for Old Village linseed oil paints, Williamsburg Butter milk paints, and feathers, combs, and graining tools. Free brochure. **Stulb's Old Village Paints**

824. Plaster Ornamentation — Ceiling medallions, cornices, crown moldings, brackets, corbels, etc. Free brochure. **Superior Architectural Cornices**

725. Mold-Making Products — Polymers for mold-making in pourable, sprayable, paintable, and trowelable consistencies. Also, lightweight urethane casting resin. Free brochure. **Synair Corp.**

101. Architectural Repair Products — Manufacturers of interior and exterior building repair products. Exterior products repair and prime wood, patch and seal roofs, gutters, chimneys and more. Free brochure. **Tuff-Kote Co.**

868. Tapestries — Woven and silkscreened. Over 500 reproductions of designs from the 19th century and earlier. Company also carries tassels, curtain rods, pillows, and more. Free brochure. **Vander Heyden Woodworking, Inc.**

525. Victorian Wallpaper — Owner and reproducer

of the Brillion collection, which contains over 4,500 rolls of 1,377 patterns of American documentary wallpaper, c.1850. Free brochure. **Victorian Collectibles, Ltd.**

846. Painted Murals & Effects — From Trompe L'Oeil to gilding, this studio offers expert decorative finishing techniques for mid- to large-size projects. Free brochure. **Kenn Wells Painting Studios**

837. Decorative Painting — Elaborate stenciling, replication of woods and stones, unique glazed finishes, and Trompe L'Oeil work. Free brochure. **Zaffie Fine Decorative Painting**

■ Division 10 — SPECIALTIES

523. Fireplace Doors — Filigree-trimmed glass fireplace doors: Cabinet & folding styles for flat and arched-top models. Mesh curtain screens; custom shapes & sizes. Free brochure. **Thermo-Rite Mfg.**

■ Division 14 — CONVEYING SYSTEMS

325. Hydraulic Elevator Systems — Custom design, manufacture, and installation for residential applications. Free brochure. **Cemco Lift**

998. Dumbwaiters, Lifts & Elevators — A wide variety of lifting products for residential applications. Free brochure. **Inclinor Co. of America**

■ Division 15 — MECHANICAL

242. Faucets & Fixtures — Complete lines of modern, Victorian, & European plumbing. New things for claw-foot tubs, shower conversions in chrome or brass, high-tank toilets, pedestal sinks, and much more. Free catalog. **A-Ball Plumbing**

586. Bathroom Fixtures & Hardware — Turn-of-the-century bathroom fixtures & accessories; reproduction & antique. Classic brass hardware and hard-to-find parts. Free brochure. **Bathroom Machineries**

719. Kitchen & Bathroom Accessories — Reproduction and antique pieces: Fixtures, faucets, hardware, towel racks, etc. Free brochure. **Decorum, Inc.**

243. Period Plumbing Fixtures — Reproduction pedestal basins, kitchen and bath faucets, and more. Free brochure. **J.T. International**

735. Period Bathroom Fixtures — Pedestal sinks, reproduction toilets, clawfoot tubs, as well as faucets and other accessories. Free brochure. **Sink Factory**

819. Hardware & Fixtures — Brass and copper reproduction items for doors, bathrooms, etc. Also carries porcelain fixtures. Free brochure. **Strom Plumbing by Sign of the Crab**

294. Victorian Showerhead — Features 169 holes on an 8 in. dia. face. Shower-arm bracket available or installs with 1/2 in. standard fittings. Free brochure. **Sunflower Shower Co.**

53. Edwardian Faucets — Importer of English Edwardian and Italian style faucets, fittings, washbasin sets, bath/shower and bidet sets in chrome, brass, gold, and enamel finishes. Free Catalog. **Watercolors**

■ Division 16 — ELECTRICAL

766. Historic Lighting — Vast selection of highest quality lighting reproductions, from 18th through early 20th century: Residential, commercial, institutional. Standard designs & custom. Free catalog. **Ball & Ball**

275. Antique Reproduction Lampshades — 96 styles ranging from \$35 — \$95. Give period feel to any interior. Free brochure. **Lampshades of Antique**

844. Brass Turnings — All manner of balls, spacers, fittings, you name it, from company with over 70 years of experience lathing parts for lighting, plumbing, heating, and other industries. Free brochure. **Liberty Brass Turning Co.**

43. Vintage Lighting — Victorian and turn-of-century chandeliers and sconces: Gas, oil, and electric. Antique and reproduction fixtures; replacement parts and glass shades. Free catalog. **Roy Electric**

373. Victorian Lighting Fixtures — Authentic reproduction Victorian & turn-of-century electric and gas chandeliers and wall brackets. Variety of glass shades. Catalog free. **Victorian Lighting Works**

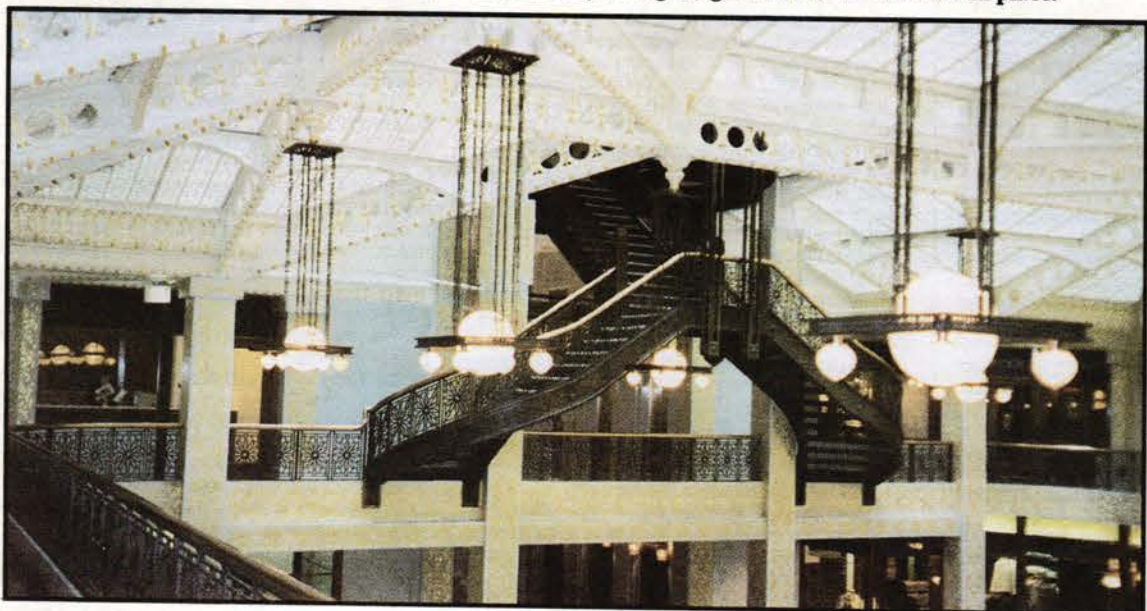
HISTORIC HARDWARE

AUTHENTIC REPRODUCTIONS AND QUALITY RESTORATIONS



▲ BALL & BALL was selected to restore, replicate and refinish all hardware on 30 historic doors for Princeton University. While there, we found the work to be signed by Samuel Yellin, a renowned Philadelphia metal-smith. The finishes we used on the hardware were derived from Yellin's finishes that were known to us.

▼ You may have seen this fixture before in our ads. This is a photo of the Light Court of the Rookery Building in Chicago. BALL & BALL restored 10 original Frank Lloyd Wright light fixtures shown here in place.



463 W. LINCOLN HIGHWAY

EXTON, PA 19341

PHONE: 610-363-7330

FAX: 610-363-7639

ORDERS: 1-800-257-3711



WRITE IN NO. 293 FOR HARDWARE & 766 FOR LIGHTING

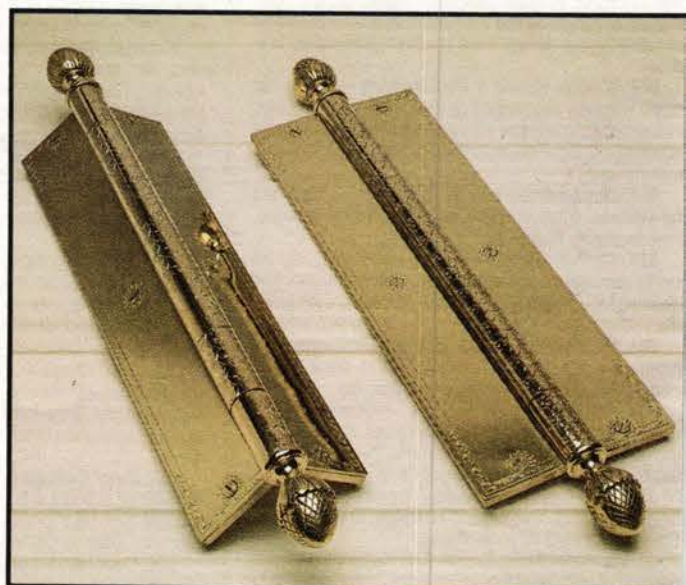
BALL & BALL has been making reproductions of the highest quality since 1932. In addition to our stock line of high quality reproductions, we also do custom work of all types. We can copy, restore, modify or refinish almost any piece of historic hardware or lighting fixture.

The photos shown in this ad are from some recently completed projects. BALL & BALL is proud to have been chosen to work on these historically important restorations. Each restoration of this type is very different. Meeting all of the demands of each project takes a great balance of skill, craftsmanship, creativity and common sense. It is very important to understand the original construction methods or finishing procedures before attempting to duplicate them. Without the correct philosophy, the work will come up short. It's that simple.

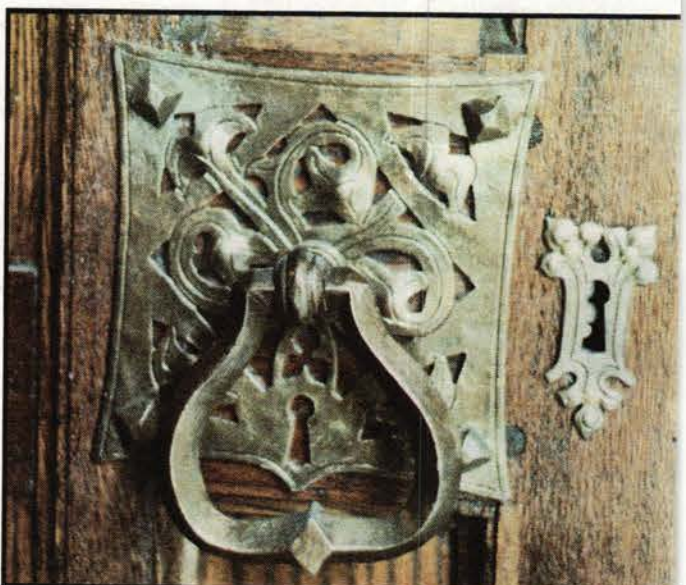
At BALL & BALL, we won't stop working on your project until we know it's right.



▲ U.S. Capitol, Senate Chambers. BALL & BALL restored and repaired one original fixture and produced one copy. The replica shown here is so close to the original, from the photo one cannot tell the difference.



▲ Custom-made large concealed screw hinges, with hand-chased design and finial.



▲ Close-up of operating handle that was reproduced by BALL & BALL for Princeton University.